SAFETY DATA SHEET

1. Identification

Material name: LIQUID COLOR DISPERSIONS - 1QT PLUM
Material: CLDI O032 585

Recommended use and restriction on use

Recommended use: Pigment
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD
CLEVELAND OH 44110
US

Contact person: EH&S Department
Telephone: 216-531-9222
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - dust and mist) Category 4
Carcinogenicity Category 2

Unknown toxicity - Health

Acute toxicity, oral 63.33 %
Acute toxicity, dermal 64.2 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 94.81 %

Environmental Hazards

Acute hazards to the aquatic environment Category 3

Unknown toxicity - Environment

Acute hazards to the aquatic environment 77.73 %
Chronic hazards to the aquatic environment 100 %

Label Elements

Hazard Symbol:
Signal Word: Warning

Hazard Statement: Harmful if inhaled. Suspected of causing cancer. Harmful to aquatic life.

Precautionary Statement:
Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>15 - 40%</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>10 - 30%</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>3 - 7%</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>Tributyl phosphate</td>
<td>126-73-8</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>Petroleum distillates</td>
<td>64742-47-8</td>
<td>0.1 - 1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store locked up.

8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc - Respirable fraction.</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Talc</td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Talc - Respirable.</td>
<td>TWA</td>
<td>2.4 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Talc - Total dust.</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Ethylene glycol - Aerosol.</td>
<td>Ceiling</td>
<td>100 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Tributyl phosphate - Inhalable fraction and vapor.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (02 2013)</td>
</tr>
<tr>
<td>Tributyl phosphate</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Petroleum distillates - Non-aerosol. - as total hydrocarbon vapor</td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Chemical name</td>
<td>type</td>
<td>Exposure Limit Values</td>
<td>Source</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------</td>
<td>-----------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Talc - Respirable.</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Talc - Respirable particles.</td>
<td>TWAEV</td>
<td>2 mg/m3</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Talc</td>
<td>TWAEV</td>
<td>2 fibers/mL</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Talc - Respirable dust.</td>
<td>TWA</td>
<td>3 mg/m3</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
</tr>
<tr>
<td>Ethylene glycol - Vapor.</td>
<td>CEILING</td>
<td>50 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Ethylene glycol - Aerosol.</td>
<td>CEILING</td>
<td>100 mg/m3</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Ethylene glycol - Particulate.</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>20 mg/m3</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
</tbody>
</table>
Ethylene glycol - Aerosol. | CEV | 100 mg/m³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
---|---|---|---
Ethylene glycol - Vapor and mist | CEILING | 50 ppm 127 mg/m³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Propylene glycol - Aerosol. | TWAEV | 10 mg/m³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Propylene glycol - Vapor and aerosol, inhalable fraction. | TWAEV | 50 ppm 155 mg/m³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tributyl phosphate | TWA | 0.2 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Tributyl phosphate | TWAEV | 0.2 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Tributyl phosphate | TWA | 0.2 ppm 2.2 mg/m³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

**Appropriate Engineering Controls**
Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection**

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties

**Appearance**

**Physical state:** liquid

**Form:** liquid

**Color:** purple
Odor: Mild
Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: No data available.

Evaporation rate: Slower than Ether

Flammability (solid, gas): No

Upper/lower limit on flammability or explosive limits
  Flammability limit - upper (%): No data available.
  Flammability limit - lower (%): No data available.
  Explosive limit - upper (%): No data available.
  Explosive limit - lower (%): No data available.

Vapor pressure: No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.

Relative density: 1.68

Solubility(ies)
  Solubility in water: Practically Insoluble
  Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure
  Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.
  Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact: Causes mild skin irritation.

Eye contact: Eye contact is possible and should be avoided.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 86,588.77 mg/kg

Dermal
Product: ATEmix: 19,894.98 mg/kg

Inhalation
Product: ATEmix: 4.81 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Serious Eye Damage/Eye Irritation
Product: No data available.

Specified substance(s):
- Ethylene glycol in vivo (Rabbit, 24 hrs): Not irritating
- Diethylene glycol in vivo (Rabbit, 24 hrs): Not irritating
- Propylene glycol (Human): Irritating
- Tributyl phosphate in vivo (Rabbit, 1 - 72 hrs): Slightly irritating
- Petroleum distillates in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: Suspected of causing cancer.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Talc: Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Ethylene glycol
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 40,000 - 60,000 mg/l Mortality

Diethylene glycol
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 75,210 mg/l Mortality
Propylene glycol  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 55,770 mg/l Mortality

Tributyl phosphate  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1 - 10 mg/l Mortality

Petroleum distillates  
LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 2.9 mg/l Mortality

Aquatic Invertebrates  
Product: No data available.

Specified substance(s):  
Ethylene glycol  
LC 50 (Water flea (Daphnia magna), 24 h): 37,800 - 45,100 mg/l Mortality  
LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality  
LC 50 (Brine shrimp (Artemia sp.), 24 h): > 20,000 mg/l Mortality  
LC 50 (Brine shrimp (Artemia salina), 24 h): > 20,000 mg/l Mortality  
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): > 100 mg/l Mortality

Diethylene glycol  
LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality  
LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality

Propylene glycol  
EC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Intoxication  
EC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Intoxication  
LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality

Tributyl phosphate  
EC 50 (Water flea (Daphnia magna), 24 h): 35 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish  
Product: No data available.

Specified substance(s):  
Ethylene glycol  
NOAEL (Pimephales promelas, 7 d): 15,380 mg/l experimental result

Diethylene glycol  
NOAEL (Pimephales promelas, 7 d): 15,380 mg/l interpreted

Propylene glycol  
NOAEL (Pimephales promelas, 7 d): 11,530 mg/l experimental result

Tributyl phosphate  
NOAEL (Oncorhynchus mykiss, 95 d): 0.82 mg/l experimental result

Aquatic Invertebrates  
Product: No data available.

Toxicity to Aquatic Plants  
Product: No data available.

Persistence and Degradability  
Biodegradation  
Product: No data available.
BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):
- Ethylene glycol: Crayfish (Procambarus), Bioconcentration Factor (BCF): 0.42 (Flow through)
- Tributyl phosphate: Goldfish (Carassius auratus), Bioconcentration Factor (BCF): 7 - 11 (Static)
  Medaka, high-eyes (Oryzias latipes), Bioconcentration Factor (BCF): 30 - 35 (Static)
  Medaka, high-eyes (Oryzias latipes), Bioconcentration Factor (BCF): 21 - 35 (Flow through)
  Japanese whiting (Sillago japonica), Bioconcentration Factor (BCF): 44 (Flow through)
  Japanese whiting (Sillago japonica), Bioconcentration Factor (BCF): 42 (Flow through)

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Specified substance(s):
- Ethylene glycol: Log Kow: -1.36
- Propylene glycol: Log Kow: -0.92

Mobility in Soil: No data available.

Other Adverse Effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG: Not Regulated

CFR / DOT: Not Regulated
IMDG:
Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>5000 lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>5000 lbs.</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Tributyl phosphate</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Petroleum distillates</td>
<td>500 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
</tr>
</tbody>
</table>

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient regulated by CA Prop 65 present.
US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Talc
Ethylene glycol
Propylene glycol
Tributyl phosphate

US. Massachusetts RTK - Substance List

Chemical Identity
Talc
Ethylene glycol
Tributyl phosphate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Talc
Ethylene glycol
Diethylene glycol
Propylene glycol
Tributyl phosphate

US. Rhode Island RTK

Chemical Identity
Ethylene glycol

Other Regulations:

Regulatory VOC (less water and exempt solvent): 522 g/l
VOC Method 310: 19.05 %

Inventory Status:

Australia AICS: One or more components in this product are not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals: One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or exempt from the Inventory.

16. Other information, including date of preparation or last revision

Revision Date: 11/19/2015

Version #: 2.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.