Safety Data Sheet

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

1.1 Product identifier

Product Name • **Chroma/Tint, Chroma/Tint Blue**

Product Description • Purple or blue liquid.

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

Relevant identified use(s) • Aqueous emulsion dye

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
• (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 453/2010]

2.1 Classification of the substance or mixture

CLP • Not classified

2.2 Label Elements

CLP

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
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.

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

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

2.1 Classification of the substance or mixture

UN GHS

- Not classified

2.2 Label elements

UN GHS

Hazard statements

- Not classified

Precautionary statements

Prevention

- Wear protective gloves/protective clothing/eye protection/face protection.

Response

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
  IF ON SKIN: Wash with plenty of soap and water.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

- Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements

- Not classified

Precautionary statements

Prevention

- Wear protective gloves/protective clothing/eye protection/face protection.

Response

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
  IF ON SKIN: Wash with plenty of soap and water.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

2.1 Classification of the substance or mixture

WHMIS

- Not classified

2.2 Label elements

WHMIS

- Not classified

2.3 Other hazards

WHMIS

- No data available

2.4 Other information

NFPA

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**
1,2-Propanediol	**CAS:**57-55-6 **EC Number:**200-338-0 **EINECS:**200-338-0	0% TO 1%	Ingestion/Oral-Rat LD50 • 20 g/kg Skin-Rabbit LD50 • 20800 mg/kg	**WHMIS:** **UN GHS:** Skin Irrit. 3; Eye Irrit. 2A **EU CLP:** **OSHA HCS 2012:**	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.

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

Antidotes

- No data available.

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

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- No data available.

Hazardous Combustion Products
- Products of combustion include: carbon oxides (COx).

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 or walk through spilled material. 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
- Store away from extreme heat. Do not freeze. Keep container closed when not in use.

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	Australia	Canada Ontario	Ireland	New Zealand	Norway
1,2-Propanediol (57-55-6)	TWAs	150 ppm TWA (total vapour and particulates); 474 mg/m3 TWA (total vapour and particulates); 10 mg/m3 TWA (particulates only)	10 mg/m3 TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present, aerosol only); 50 ppm TWA (aerosol and vapor); 155 mg/m3 TWA (aerosol and vapor)	150 ppm TWA (total vapour and particulates); 470 mg/m3 TWA (total vapour and particulates); 10 mg/m3 TWA (particulate)	150 ppm TWA (particulates and vapour); 474 mg/m3 TWA (particulates and vapour); 10 mg/m3 TWA (particulates only)	25 ppm TWA; 79 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)		
	Result	South Africa
1,2-Propanediol (57-55-6)	TWAs	150 ppm TWA (particulate and vapour); 470 mg/m3 TWA (particulate and vapour); 10 mg/m3 TWA (particulate)

8.2 Exposure controls

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

Personal Protective Equipment

Pictograms
- 

Respiratory
- In case of insufficient ventilation, wear suitable respiratory equipment.

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

Environmental Exposure Controls
- No data available

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Not relevant
Color	Purple or blue.	Odor	Odorless
Taste	Not relevant	Odor Threshold	No data available
General Properties			
Boiling Point	100 C(212 F)	Melting Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	> 1
Density	8.66 lbs/gal	Water Solubility	Soluble
Viscosity	No data available	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	< 1 n-Butyl Acetate = 1	VOC (Wt.)	< 1 %
Volatiles (Wt.)	84 to 90 %		
Flammability			
Flash Point	> 200 F(> 93.3333 C)	UEL	No data available
LEL	No data available	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

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid freezing. Excess heat.

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).

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
1,2-Propanediol (0% TO 1%)	57-55-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 20 g/kg; Skin-Rabbit LD50 • 20800 mg/kg; **Irritation:** Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Human • 500 mg 7 Day(s) • Mild irritation

GHS Properties	Classification
Acute toxicity	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Aspiration Hazard	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Carcinogenicity	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Germ Cell Mutagenicity	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Skin corrosion/Irritation	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**

Skin sensitization	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
STOT-RE	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
STOT-SE	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Toxicity for Reproduction	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Respiratory sensitization	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**
Serious eye damage/Irritation	**EU/CLP•** **OSHA HCS 2012•** **UN GHS•**

Potential Health Effects

Inhalation

Acute (Immediate)
- May cause mild irritation.

Chronic (Delayed)
- Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)
- May cause mild irritation.

Chronic (Delayed)
- Repeated and prolonged exposure may cause irritation.

Eye

Acute (Immediate)
- May cause irritation.

Chronic (Delayed)
- Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available

Section 12 - Ecological Information

12.1 Toxicity

Component	CAS	Data	Comments
1,2-Propanediol (0% TO 1%)	57-55-6	**Crustacea:** 48 Hour(s) EC50 Water Flea 1000 mg/L ; **Fish:** 96 Hour(s) LC50 Fish 710 mg/L [Fresh water]	

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 content and/or container in accordance with local, regional, national, and/or international regulations. 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 73/78 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
- No data available

State Right To Know			
Component	**CAS**	**NJ**	**PA**
1,2-Propanediol	57-55-6	Yes	Yes

Inventory						
Component	**CAS**	**Australia AICS**	**Canada DSL**	**China**	**EU EINECS**	**Japan ENCS**
1,2-Propanediol	57-55-6	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)					
Component	**CAS**	**Korea KECL**	**New Zealand**	**Philippines PICCS**	**TSCA**
1,2-Propanediol	57-55-6	Yes	Yes	Yes	Yes

Australia

Labor

Australia - High Volume Industrial Chemicals List

•1,2-Propanediol	57-55-6	

Australia - List of Designated Hazardous Substances - Classification

•1,2-Propanediol	57-55-6	Self classification required (particulates only or total vapour and particulates)

Canada

Labor

Canada - WHMIS - Classifications of Substances

•1,2-Propanediol	57-55-6	Uncontrolled product

		according to WHMIS classification criteria
Canada - WHMIS - Ingredient Disclosure List		
•1,2-Propanediol	57-55-6	1 %

Environment

Canada - Council of Ministers of the Environment - Water Quality Guidelines for Freshwater Aquatic Life

•1,2-Propanediol	57-55-6	500000 µg/L (listed under Glycols)

Germany

Environment

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

•1,2-Propanediol	57-55-6	ID Number 280, hazard class 1 - low hazard to waters

Japan

Environment

Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

•1,2-Propanediol	57-55-6	2-(8)-321; 2-(8)-323

Other

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

•1,2-Propanediol	57-55-6	Readily biodegradable

Japan - Fire Service Law - Hazardous Materials

•1,2-Propanediol	57-55-6	Group 4 - Flammable liquids III (listed under 3rd Class petroleums - soluble)

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
  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.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Classification method for mixtures
- Calculation method.

Last Revision Date
- 12 April 2004

Preparation Date
- 13 April 2015

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

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