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

1.1 Product identifier
Product Name: Chroma/Fill Blue iSC
Product Description: Blue liquid
1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s): Screen printing mesh blockout
1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier IKONICS
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 EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 2020/878]

2.1 Classification of the substance or mixture
CLP

Hazard Class	Category	Code
Not classified		

2.2 Label Elements
CLP

Hazard Statement	Code
Not classified	

Precautionary Measures

Category	Code	Statement
Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 P304+P341 P305+P351+P338	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
This mixture does not meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with REACH Annex XIII.

Endocrine Disrupting Properties
Human Health: This mixture does not contain components having endocrine disrupting properties in accordance with REACH Article 59(1), Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/603 at a concentration equal to or greater than 0.1% by weight.
Environment: This mixture does not contain components having endocrine disrupting properties in accordance with REACH Article 59(1), Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/603 at a concentration equal to or greater than 0.1% by weight.

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

2.1 Classification of the substance or mixture
UN GHS

Hazard Class	Category	Code
Not classified		

2.2 Label Elements
UN GHS

Hazard Statement	Code
Not classified	

Precautionary Measures

Category	Code	Statement
Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 P304+P341 P305+P351+P338	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
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

Hazard Class	Category	Code
Not classified		

2.2 Label Elements
OSHA HCS 2012

Hazard Statement	Code
Not classified	

Precautionary Measures

Category	Code	Statement
Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 P304+P341 P305+P351+P338	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
OSHA HCS 2012 No data available

Canada
According to WHMIS 2015

2.1 Classification of the substance or mixture
WHMIS 2015

Hazard Class	Category	Code
Not classified		

2.2 Label Elements

WHMIS 2015

Hazard Statement	Code
Not classified	

Precautionary Measures

Category	Code	Statement
Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 P304+P341 P305+P351+P338	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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

WHMIS 2015 No data available

2.4 Other information

NFPA

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

No ingredients are hazardous according to CLP, GHS, OSHA or WHMIS criteria.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation. 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. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye. 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

No data available

4.3 Indication of any immediate medical attention and special treatment needed

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. Material is non-combustible and is not expected to pose a fire or explosion hazard.

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 damaged containers or spilled material unless wearing appropriate protective clothing.

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

Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store away from extreme heat. Do not freeze.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

None specified

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. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

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**	Viscous liquid
Color	Blue	**Odor**	Mild
General Properties			
Boiling Point	> 100 C (212 F)	**Melting/Freezing Point**	< 0 C (32 F)
Decomposition Temperature	No data available	**pH**	4.5-5.5
Density	8.8 lb/gal (1.05 g/mL)	**Water Solubility**	Miscible
Viscosity	11,000-14,000 Centipoise (cPs, cP) or mPas @ 25 C (77 F)	**Kinematic Viscosity**	10,400-13,300 mm^2/s
Explosive Properties	Not relevant	**Oxidizing Properties**	Not relevant
Volatility			
Vapor Pressure	Not relevant	**Vapor Density**	Not relevant
Evaporation Rate	No data available	**VOC (Wt.)**	0 %
Volatiles (Wt.)	85-86 %		
Flammability			
Flash Point	Not relevant	**UEL**	No data available
LEL	No data available	**Autoignition**	No data available
Flammability (solid, gas)	Non-flammable in liquid form.		
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 data available

Section 10: Stability and Reactivity

10.1 Reactivity. No dangerous reaction known under conditions of normal use.
10.2 Chemical stability. Stable
10.3 Possibility of hazardous reactions. Hazardous polymerization will not occur.
10.4 Conditions to avoid. None known.
10.5 Incompatible materials. No data available.
10.6 Hazardous decomposition products. Hazardous decomposition products formed under fire conditions - carbon oxides (COx). No decomposition is expected under normal storage and use conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Hazard	Hazard Classification
Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Respiratory/skin sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-Single Exposure	Based on available data, the classification criteria are not met
STOT-Repeated Exposure	Based on available data, the classification criteria are not met
Aspiration	Based on available data, the classification criteria are not met

Potential Health Effects

Inhalation

Acute (Immediate): Under normal conditions of use, no health effects are expected.
Chronic (Delayed): Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate): Under normal conditions of use, no health effects are expected.
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): May cause irritation.
Chronic (Delayed): No specific information available.

Section 12 - Ecological Information

12.1 Toxicity
No data available
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 Endocrine disrupting properties
No endocrine disrupting components identified
12.7 Other adverse effects
None noted

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 IMO instruments. 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. Not classified
REACH compliance. No components at a concentration of 0.1% w/w or above are included in the Authorization List or the Candidate List of Substances of Very High Concern for Authorization
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 does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information

Relevant phrases (code & full text)
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
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: N/A
Preparation date: 07 February 2023
Changes to the current revision: New document.
Other information
Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
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