

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

**1.1 Product identifier**

**Product Name** • **Chroma/Tech PL-2**  
**Product Description** • Purple liquid.

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

**Relevant identified use(s)** • Water-based emulsion

**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 EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

**2.1 Classification of the substance or mixture**

**CLP** • Not classified  
**DSD/DPD** • 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** • 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.

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

## DSD/DPD

**Safety phrases** • S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### 2.3 Other Hazards

**CLP** • No data available

**DSD/DPD** • No data available

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## UN GHS

According to Third Revised Edition

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

**Response** • 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.

**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

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## 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**

#### Precautionary statements

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

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

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

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

### 2.3 Other hazards

**OSHA HCS 2012** • No data available

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## Canada

According to WHMIS

## 2.1 Classification of the substance or mixture

WHMIS • Not classified

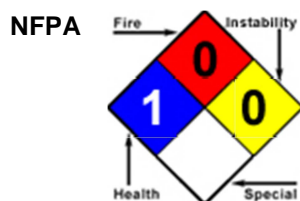
## 2.2 Label elements

WHMIS • Not classified

## 2.3 Other hazards

WHMIS • No data available

## 2.4 Other information



## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Isopropyl alcohol	CAS:67-63-0 EC Number:200-661-7 UN:UN1219 EINECS:200-661-7	1% TO 2%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	WHMIS: Flam. Liq. - B2; Other Toxic Effects - D2B UN GHS: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc. EU DSD/DPD: Highly Flammable(F); Irritant(Xi); R11; R36; R67 EU CLP: Flam. Liq. 2; Eye Irrit. 2; STOT SE 3: Narc. OSHA HCS 2012:	

## 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

- No data available

### 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, CO<sub>2</sub>, 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 may burn, but does not ignite readily.

**Hazardous Combustion Products** • Products of combustion include: carbon oxides (CO<sub>x</sub>).

### 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

- No data available

### 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.  
Ventilate enclosed areas.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

### 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	Purple	Odor	Mild
Taste	Not relevant	Odor Threshold	No data available
Physical and Chemical Properties	Not relevant		
General Properties			
Boiling Point	100 C(212 F)	Melting Point	Not relevant
Decomposition Temperature	Not relevant	pH	No data available
Density	9.08 lbs/gal	Water Solubility	Miscible
Viscosity	No data available	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Vol.)	21.8 g/L
Flammability			
Flash Point	Not measurable	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

- 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

- Direct sunlight. Excess heat. Avoid freezing.

### 10.5 Incompatible materials

- Strong oxidizing agents.

### 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

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•

## 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)**
  - Under normal conditions of use, no health effects are expected.
- 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 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
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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 • Not classified

State Right To Know				
Component	CAS	MA	NJ	PA
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)					
Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes

### Australia

#### Labor

Australia - High Volume Industrial Chemicals List

•Isopropyl alcohol 67-63-0 1% TO 2%

Australia - List of Designated Hazardous Substances - Classification

•Isopropyl alcohol 67-63-0 1% TO 2% F, Xi R11, R36, R67

#### Environment

Australia - Priority Existing Chemical Program

•Isopropyl alcohol 67-63-0 1% TO 2% Candidate chemical

### Canada

#### Labor

Canada - WHMIS - Classifications of Substances

•Isopropyl alcohol 67-63-0 1% TO 2% B2, D2B (including 70%)

Canada - WHMIS - Ingredient Disclosure List

•Isopropyl alcohol 67-63-0 1% TO 2% 1 %

### Canada Alberta

#### Environment

Canada - Alberta - Ambient Air Quality Objectives

•Isopropyl alcohol 67-63-0 1% TO 2% 3190 ppbv 1 hour average; 7850 µg/m3 1 hour average

### China

#### Other

China - Dangerous Goods List

•Isopropyl alcohol 67-63-0 1% TO 2% UN1219 PG = II

### Europe

#### Other

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

•Isopropyl alcohol 67-63-0 1% TO 2% F; R11 Xi; R36 R67

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



•Isopropyl alcohol 67-63-0 1% TO 2% F Xi R:11-36-67 S:(2)-7-16-24/25-26

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

•Isopropyl alcohol 67-63-0 1% TO 2% S:(2)-7-16-24/25-26

**EU - Existing Substance Regulation (793/93/EEC) - Evaluation of Existing HPV Chemicals (REPEALED)**

•Isopropyl alcohol 67-63-0 1% TO 2%

## Germany

### Environment

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

•Isopropyl alcohol 67-63-0 1% TO 2% ID Number 135, hazard class 1 - low hazard to waters

## Hong Kong

### Labor

**Hong Kong - Dangerous Substances Regulations - Classification**

•Isopropyl alcohol 67-63-0 1% TO 2% Flammable

**Hong Kong - Dangerous Substances Regulations - Particular Risks**

•Isopropyl alcohol 67-63-0 1% TO 2% R-11

**Hong Kong - Dangerous Substances Regulations - Safety Precautions**

•Isopropyl alcohol 67-63-0 1% TO 2% S-6/8, S-13

### Other

**Hong Kong - Dangerous Goods - Category 5 - Substances Giving Off Flammable Vapour**

•Isopropyl alcohol 67-63-0 1% TO 2% Class 1, Division 2

## India

### Environment

**India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals**

•Isopropyl alcohol 67-63-0 1% TO 2%

## Japan

### Labor

**Japan - ISHL Dangerous Substances**

•Isopropyl alcohol 67-63-0 1% TO 2% Flammable substance

**Japan - ISHL Harmful Substances Requiring Workers to Subject to Medical Exams**

•Isopropyl alcohol 67-63-0 1% TO 2% (when produced and handled indoors)

**Japan - ISHL Harmful Substances Whose Names Are to be Indicated on the Label**

•Isopropyl alcohol 67-63-0 1% TO 2% >1 % weight

**Japan - ISHL Notifiable Substances**

•Isopropyl alcohol 67-63-0 1% TO 2% >0.1 % weight [Table 9, 494] (listed under Propyl alcohol)

**Japan - ISHL Prevention of Organic Solvent Poisoning**

•Isopropyl alcohol 67-63-0 1% TO 2% Class 2

### Environment

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

•Isopropyl alcohol 67-63-0 1% TO 2% 2-(8)-319

### Other

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

•Isopropyl alcohol 67-63-0 1% TO 2% Decomposable

**Japan - Fire Service Law - Hazardous Materials**

•Isopropyl alcohol 67-63-0 1% TO 2% Group 4 - Flammable liquids II (listed under Alcohols)

**Japan - ISHL Working Environment Evaluation Standards - Administrative Control Levels**

•Isopropyl alcohol 67-63-0 1% TO 2% 200 ppm ACL

## Mexico

### Other

**Mexico - Hazard Classifications**

•Isopropyl alcohol 67-63-0 1% TO 2% Hazard Class = 3 PG = II UN1219

**Mexico - Regulated Substances**

•Isopropyl alcohol 67-63-0 1% TO 2% UN1219

## Singapore

### Environment

**Singapore - Petroleum and Flammable Materials - Hazard Classes**

•Isopropyl alcohol 67-63-0 1% TO 2% Hazard Class = 3

**Singapore - Petroleum and Flammable Materials - Regulated Products**

•Isopropyl alcohol 67-63-0 1% TO 2% SCDIPA1219L2

## United States - Pennsylvania

### Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

•Isopropyl alcohol 67-63-0 1% TO 2%

## 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:

1,4-Dioxane	CAS #123-91-1	<0.0004%
Acetaldehyde	CAS #75-07-0	<0.00002%
Toluene	CAS #108-88-3	<0.00002%

## 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.  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### Classification method for mixtures

- Calculation method.

### Last Revision Date

- 28 April 2006

### Preparation Date

- 17 January 2013

### Other Information

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

### Disclaimer/Statement of Liability

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