Safety Data Sheet



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

FOR SALE AND USE IN THE UNITED STATES ONLY

1.1 Product identifier

Product Name • Chroma/Screen Wash 920

Product Description • Clear liquid.

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

Relevant identified use(s) • Liquid cleaning product

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

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2 - H315

Serious Eye Damage 1 - H318 Reproductive Toxicity 1B - H360

2.2 Label elements

UN GHS

DANGER





Hazard statements • H315 - Causes skin irritation

H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child.

Precautionary statements

Prevention • P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash thoroughly after handling.

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

Response • P308+P313 - IF exposed or concerned: Get medical advice/attention.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P321 - Specific treatment, see supplemental first aid information. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash 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. P310 - Immediately call a POISON CENTER or doctor/physician.

Storage/Disposal • P405 - Store locked up.

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

• Skin Irritation 2 - H315

Serious Eye Damage 1 - H318 Reproductive Toxicity 1B - H360

2.2 Label elements

OSHA HCS 2012

DANGER





Hazard statements • Causes skin irritation - H315

Causes serious eye damage - H318

May damage fertility or the unborn child. - H360

Precautionary statements

Prevention • Obtain special instructions before use. - P201

Do not handle until all safety precautions have been read and understood. - P202

Wash thoroughly after handling. - P264

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

Response • IF exposed or concerned: Get medical advice/attention. - P308+P313

IF ON SKIN: Wash with plenty of soap and water. - P302+P352 Specific treatment, see supplemental first aid information. - P321 If skin irritation occurs: Get medical advice/attention. - P332+P313

Take off contaminated clothing and wash before reuse. - P362

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338 Immediately call a POISON CENTER or doctor/physician. - P310

Storage/Disposal • Store locked up. - P405

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

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

• Other Toxic Effects - D2B

2.2 Label elements

WHMIS



• Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

• No data available

2.4 Other information

NFPA



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(or 2)-(2- methoxymethylethoxy), propanol acetate	CAS :88917-22-0	30%		WHMIS: UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Flam. Liq. 4 OSHA HCS 2012:	NDA
Succinic acid, dimethyl ester	CAS:106-65-0 EINECS:203- 419-9	10% TO 15%	Ingestion/Oral-Rat LD50 • >5 g/kg Skin-Rabbit LD50 • >5 g/kg Ingestion/Oral-Mouse LD50 • 5500 mg/kg	WHMIS: UN GHS: Eye Irrit. 2A; Flam. Liq. 4 OSHA HCS 2012:	NDA
2-Pyrrolidinone, 1-methyl-	CAS:872-50-4 EC Number:212- 828-1 EU Index:606- 021-00-7 EINECS:212- 828-1	7% TO 8%	Ingestion/Oral-Rat LD50 • 3914 mg/kg Ingestion/Oral-Mouse LD50 • 5130 mg/kg Skin-Rabbit LD50 • 8 g/kg	WHMIS: UN GHS: Eye Irrit. 2A; Skin Irrit. 2 OSHA HCS 2012:	NDA
Nonylphenol polyethylene glycol ether	CAS :127087-87-0	7%		WHMIS: UN GHS: Eye Dam. 1 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

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

• SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam. LARGE FIRES: Water spray, fog or alcohol-resistant foam.

Unsuitable

No data available

Extinguishing Media

Firefighting Procedures • 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 • Some of these materials may burn, but none ignite readily.

Products

Hazardous Combustion • Products of combustion include: carbon oxides (COx), nitrogen oxides (NOx).

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

• Ventilate enclosed areas. Contact may irritate or burn skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

• Personal protective equipment is required for clean-up personnel. Ventilate closed spaces before entering. Keep unauthorized personnel away.

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) Stop leak if you can do it without risk.

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

• Do not store near heat, sparks or open flames. Keep container closed when not in

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	Canada Ontario	Canada Yukon	
	TWAs	400 mg/m3 TWA	100 ppm TWA; 400 mg/m3 TWA	
methyl- (872-50-4)	STELs	Not established	125 ppm STEL; 500 mg/m3 STEL	
` ' '		150 ppm STEL; 1164 mg/m3 STEL	Not established	
methoxymethylethoxy), propanol acetate (88917-22-0)		100 ppm TWA; 776 mg/m3 TWA	Not established	

Exposure Limits Supplemental

ACGIH

•2-Pyrrolidinone, 1-methyl- (872-50-4): BEIs: (100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone)

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	Clear liquid.
Color	Pale yellow.	Odor	Mild
Taste	No data available.	Odor Threshold	No data available
General Properties	-	•	_
Boiling Point	199 C(390.2 F)	Melting Point	No data available
Decomposition Temperature	No data available	рН	Not relevant
Specific Gravity/Relative Density	1.05 Water=1	Density	8.72 lbs/gal
Water Solubility	Appreciable	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	No data available	VOC (Vol.)	No data available
Flammability			
Flash Point	> 95 C(> 203 F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Classification criteria not met.		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	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

• Heat, sparks or open flame.

10.5 Incompatible materials

• Strong oxidizing or reducing agents.

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

Component Name	CAS	Data	
Succinic acid, dimethyl ester (10% TO 15%)	106-65-0	Acute Toxicity: orl-rat LD50:>5 gm/kg; skn-rbt LD50:>5 gm/kg	
2-Pyrrolidinone, 1-methyl- (7% TO 8%)	872-50-4	Acute Toxicity: orl-rat LD50:3914 mg/kg; skn-rbt LD50:8 gm/kg; Irritation: eye-rbt 100 mg MOD; Reproductive: orl-rat TDLo:7.5 gm/kg (6-20D preg); ihl-rat TDLo:116 ppm/6H (multigenerations); skn-rat TDLo:7500 mg/kg (6-15D preg)	
GHS Properties		Classification	
Acute toxicity		OSHA HCS 2012• UN GHS•	
Aspiration Hazard		OSHA HCS 2012• UN GHS•	
Carcinogenicity		OSHA HCS 2012• UN GHS•	
Germ Cell Mutagenicity		OSHA HCS 2012• UN GHS•	
Skin corrosion/Irritation		OSHA HCS 2012•Skin Irritation 2 UN GHS•Skin Irritation 2	
Skin sensitization		OSHA HCS 2012• UN GHS•	
STOT-RE		OSHA HCS 2012• UN GHS•	
STOT-SE		OSHA HCS 2012• UN GHS•	
Toxicity for Reproduction		OSHA HCS 2012•Toxic to Reproduction 1B UN GHS•	
Respiratory sensitization		OSHA HCS 2012• UN GHS•	
Serious eye damage/Irritation		OSHA HCS 2012•Serious Eye Damage 1 UN GHS•Serious Eye Damage 1	

Potential Health Effects

Inhalation

Acute (Immediate)

May cause irritation.

Chronic (Delayed)

• Repeated and prolonged exposure to high concentrations of vapors or mists may cause irritation to nose and throat, loss of coordination, fatigue, drowsiness, and/or dizziness.

Skin

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may cause burning, cracking or drying of the skin.

Eye

Acute (Immediate)

• May cause severe irritation and eye damage.

Chronic (Delayed)

• Repeated and prolonged exposure may cause irreversible damage to eyes.

Ingestion

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

• No specific information available.

Reproductive Effects

• Repeated and prolonged exposure may cause reproductive effects.

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 14.4 Packing class(es) 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 • Acute

State Right To Know					
Component	CAS	MA	NJ	PA	
1(or 2)-(2- methoxymethylethoxy), propanol acetate	88917-22- 0	No	No	No	
2-Pyrrolidinone, 1- methyl-	872-50-4	Yes	Yes	Yes	
Nonylphenol polyethylene glycol ether	127087-87- 0	No	No	No	
Succinic acid, dimethyl ester	106-65-0	No	No	No	

Inventory					
Component	CAS	Canada DSL	TSCA		
1(or 2)-(2- methoxymethylethoxy), propanol acetate	88917-22- 0	Yes	Yes		
2-Pyrrolidinone, 1- methyl-	872-50-4	Yes	Yes		
Nonylphenol polyethylene glycol ether	127087-87- 0	Yes	Yes		
Succinic acid, dimethyl ester	106-65-0	Yes	Yes		

Canada

Labor

Canada - WHMIS - 0	Classifications	of	Substances
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•Succinic acid, dimethyl ester	106-65-0	Not Listed
•2-Pyrrolidinone, 1-methyl-	872-50-4	B3, D2B
•1(or 2)-(2-methoxymethylethoxy), propanol acetate	88917-22-0	Not Listed
•Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Succinic acid, dimethyl ester	106-65-0	Not Listed
•2-Pyrrolidinone, 1-methyl-	872-50-4	1.0 % de minimis concentration
•1(or 2)-(2-methoxymethylethoxy), propanol acetate	88917-22-0	Not Listed
Nonylphenol polyethylene glycol ether	127087-87-0	Not Listed

United States - California

Environment

U.S California - Proposition 65 - Developmental Toxicity	
*Cussinis said dimethyl sater	

	2. California i reposition de Bevelopinental rexistry	400 05 0	No. of the contract of the con
•Su	ccinic acid, dimethyl ester	106-65-0	Not Listed
•2-	Pyrrolidinone, 1-methyl-	872-50-4	developmental toxicity, initial date 6/15/01
•1(0	or 2)-(2-methoxymethylethoxy), propanol acetate	88917-22-0	Not Listed
•No	nylphenol polyethylene glycol ether	127087-87-0	Not Listed
U.S	S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
•Su	ccinic acid, dimethyl ester	106-65-0	Not Listed

3200 μg/day MADL (inhalation); 17000 μg/day •2-Pyrrolidinone, 1-methyl-872-50-4 MADL (dermal) •1(or 2)-(2-methoxymethylethoxy), propanol acetate 88917-22-0 Not Listed

•Nonylphenol polyethylene glycol ether **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

127087-87-0 Not Listed

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:

N-Methylpyrrolidone CAS #872-50-4 7-8% Dioxane CAS #123-91-1 <0.0001%

Section 16 - Other Information

Relevant Phrases (code & full text)

• H315 - Causes skin irritation

H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash thoroughly after handling.

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. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment, see supplemental first aid information.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P405 - Store locked up.

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

• 06 November 2012

Preparation Date

• 02 May 2014

Other Information

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

Liability

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