

Safety Data Sheet

Revision: 24 March 2025

Supersedes: N/A

IKONICS®

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

1.1 Product identifier

Product Name: Chroma/Ready Wash iSC

Product Description: Colorless liquid

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

Relevant identified use(s): Ink remover

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
Eye Irritation	2	H319

2.2 Label Elements

CLP

WARNING



Hazard Statement	Code
Causes serious eye irritation	H319

Precautionary Measures

Category	Code	Statement
Prevention	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P305+P351+P338+P317	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
	P337+P313	If eye irritation persists: Get medical advice/attention.
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
Eye Irritation	2	H319
Hazardous to the Aquatic Environment, Acute	3	H402

2.2 Label Elements**UN GHS****WARNING**

Hazard Statement	Code
Causes serious eye irritation	H319
Harmful to aquatic life	H402

Precautionary Measures

Category	Code	Statement
Prevention	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P273	Avoid release into the environment.
	P305+P351+P338+P317	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
	P337+P313	If eye irritation persists: Get medical advice/attention.
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
Eye Irritation	2	H319

2.2 Label Elements**OSHA HCS 2012****WARNING**

Hazard Statement	Code
Causes serious eye irritation	H319

Precautionary Measures

Category	Code	Statement
Prevention	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P305+P354+P338+P317	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
	P337+P313	If eye irritation persists: Get medical advice/attention.
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
Eye Irritation	2	H319

2.2 Label Elements
WHMIS 2015

WARNING



Hazard Statement	Code
Causes serious eye irritation	H319

Precautionary Measures

Category	Code	Statement
Prevention	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P305+P354+P338+P317	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
	P337+P313	If eye irritation persists: Get medical advice/attention.
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



Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

Chemical Name	CAS number	%	LD50/LC50	Classifications According to Regulation/Directive
2-(2-Butoxyethoxy)ethanol	112-34-5	15-25 %	Ingestion/Oral-Mouse LD50 2410 mg/kg; Skin-Rabbit LD50 2764 mg/kg	GHS / CLP / OSHA / WHMIS: Eye Irrit. 2
Dimethyl glutarate	1119-40-0	10-15 %	Ingestion/Oral-Rat LD50 > 5,000 mg/kg; Skin-Rat LD50 > 2,000 mg/kg	GHS / CLP: Aquatic Acute 3
Undecan-1-ol, ethoxylated	34398-01-1	3-5 %	Ingestion/Oral-Rat LD50 > 1,000 mg/kg; Skin-Rabbit LD50 > 2,000 mg/kg	GHS / CLP / OSHA / WHMIS: Eye Irrit. 2; Aquatic Acute 2
Dimethyl succinate	106-65-0	3-5 %	Ingestion/Oral-Rat LD50 > 5,000 mg/kg; Skin-Rabbit LD50 > 5,000 mg/kg	GHS / CLP: Eye Irrit. 2A; Aquatic Acute 3 OSHA / WHMIS: Eye Irrit. 2A
Dimethyl adipate	627-93-0	3-5 %	Ingestion/Oral-Rat LD50 > 5,000 mg/kg; Skin-Rabbit LD50 > 1,000 mg/kg	GHS / CLP: Aquatic Acute 3
Alcohols, C10-C16, ethoxylated, propoxylated	69227-22-1	1-2 %	Ingestion/Oral-Rat LD50 > 2,000 mg/kg	GHS / CLP / OSHA / WHMIS: Eye Irrit. 2

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

Refer to Section 11 – Toxicological Information

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 may burn, but does not ignite readily.

Hazardous combustion products. Products of combustion include: carbon oxides (CO_x).

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

Chemical Name	EXPOSURE LIMITS		
	Type		ppm
2-(2-Butoxyethoxy)ethanol	ACGIH TLV	TWA	10

8.2 Exposure controls

Engineering measures/controls. Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment

Pictograms



Respiratory: Do not breathe vapors or mists. 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	Clear
Color	Colorless	Odor	Vanilla, slight solvent
General Properties			
Boiling Point	No data available	Melting/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Density	8.4 lb/gal (1.003 g/mL)	Water Solubility	Partial
Viscosity	No data available	Kinematic Viscosity	No data available
Explosive Properties	Not relevant	Oxidizing Properties	Not relevant
Volatility			
Vapor Pressure	No data available	Vapor Density	> 1
Evaporation Rate	No data available	VOC (Wt.)	40 %
Volatiles (Wt.)	Approx. 100 %		
Flammability			
Flash Point	>93.3 C (>200 F)	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 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. 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

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	Eye Irritation 2
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

Route(s) of entry/exposure: Skin, eye, ingestion

Potential Health Effects

Inhalation

Acute (Immediate): May cause irritation of the respiratory tract.

Chronic (Delayed): Repeated and prolonged exposure may cause headache, nausea, weakness, lightheadedness and stupor (CNS depression).

Skin

Acute (Immediate): May cause skin irritation.

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

Eye

Acute (Immediate): Causes serious eye irritation.

Chronic (Delayed): Repeated and prolonged exposure causes serious eye irritation.

Ingestion

Acute (Immediate): May cause gastrointestinal tract irritation, liver and kidney damage.

Chronic (Delayed): Repeated and prolonged exposure may cause nausea, diarrhea and/or vomiting. May cause dizziness and/or stupor.

Section 12 - Ecological Information

12.1 Toxicity

2-(2-Butoxyethoxy)ethanol CAS # 112-34-5

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill sunfish) - 1,300 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

Toxicity to algae ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 96 h

Dimethyl glutarate CAS # 1119-40-0

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 30.838 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 112 - 150 mg/l - 48 h

Dimethyl succinate CAS # 106-65-0

Toxicity to fish LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 h

Dimethyl adipate CAS # 627-93-0

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 18 - 24 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h

Toxicity to algae EC50 - Raphidocelis subcapitata (freshwater green alga) - > 100 mg/l - 72 h

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

May cause long lasting harmful effects to aquatic life.

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

Avoid release to the environment. 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. Acute health hazard

EPCRA Section 313 Supplier Notification. 2-(2-Butoxyethoxy)ethanol CAS 112-34-5 15-25%

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 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)

H319 - Causes serious eye irritation.

H402 - Harmful to aquatic life.

P264 - Wash thoroughly after handling.

P273 - Avoid release into the environment.

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

P305+P351+P338+P317 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

P337+P313 - If eye irritation persists: Get medical advice/attention.

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: 24 March 2025

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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