

Safety Data Sheet

Revision: 02 March 2023

Supersedes: N/A

IKONICS®

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

1.1 Product identifier

Product Name: Auto Strip iSC

Product Description: Colorless liquid

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

Relevant identified use(s): Screen printing emulsion 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
Oxidizing Liquids	1	H271
Skin Corrosion	1C	H314
Serious Eye Damage	1	H318
Hazardous to the Aquatic Environment, Acute	1	H400
Hazardous to the Aquatic Environment, Chronic	1	H410

2.2 Label Elements

CLP

DANGER



Hazard Statement	Code
May cause fire or explosion; strong oxidizer	H271
Causes severe skin burns and eye damage.	H314
Very toxic to aquatic life with long lasting effects.	H410

Precautionary Measures

Category	Code	Statement
Prevention	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P220	Keep/Store away from clothing and other combustible materials.
	P260	Do not breathe dusts or mists.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P283	Wear fire resistant or flame retardant clothing.
Response	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340+312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
	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.

	P306+P360 P362+P364 P370+P378 P371+P380+P375	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take off contaminated clothing and wash before reuse. In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Storage	P405	Store locked up.
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

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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

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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

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Oxidizing Liquids	1	H271
Skin Corrosion	1C	H314
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WHMIS 2015

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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

Chemical Name	CAS number	%	LD50/LC50	Classifications According to Regulation/Directive
Periodic acid	10450-60-9	25%		GHS / CLP: Ox. Sol. 1; Skin Corr. 1C; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1 OSHA / WHMIS: Ox. Sol. 1; Skin Corr. 1C; Eye Dam. 1

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 alcohol resistant foam. LARGE FIRE: Water spray, fog or alcohol resistant 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 can contribute to fire due to release of oxygen.

Hazardous combustion products. Products of combustion include: hydrogen iodide.

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

No data available.

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	Clear liquid
Color	Colorless	Odor	Mild
General Properties			

Boiling Point	> 100 C (212 F)	Melting/Freezing Point	< 0 C (32 F)
Decomposition Temperature	No data available	pH	< 2
Density	10.9 lb/gal (1.3 g/mL)	Water Solubility	Miscible
Viscosity	No data available	Kinematic Viscosity	No data available
Explosive Properties	Not relevant	Oxidizing Properties	Oxidizing liquid
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	No data available	VOC (Wt.)	0 %
Volatiles (Wt.)	75 %		
Flammability			
Flash Point	No data available	UEL/Flammability Limit	No data available
LEL/Flammability Limit	No data available	Autoignition	No data available
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. Oxidizer.

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. All sources of heat and ignition.

10.5 Incompatible materials. Strong reducing agents. Powdered metals. Strong bases.

10.6 Hazardous decomposition products. Hazardous decomposition products formed under fire conditions - hydrogen iodide. 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	Skin Corrosion 1
Serious eye damage/irritation	Serious Eye Damage 1
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): May cause irritation.

Chronic (Delayed): Repeated and prolonged exposure may be harmful.

Skin

Acute (Immediate): May cause severe irritation and/or burns.

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

Eye

Acute (Immediate): Causes serious eye damage.

Chronic (Delayed): Repeated and prolonged exposure may cause irreversible damage to eyes.

Ingestion

Acute (Immediate): May cause severe irritation and/or burns.

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

Section 12 - Ecological Information

12.1 Toxicity

Periodic acid, CAS 10450-60-9

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - <0.17 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.18 mg/l - 48 h

Toxicity to algae EC50 - Pseudokirchneriella subcapitata - 2.5 mg/l

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	3264	Corrosive Liquid, Acidic, Inorganic, n.o.s. (Contains Periodic Acid)	8	III	NDA
IMO/IMDG	3264	Corrosive Liquid, Acidic, Inorganic, n.o.s. (Contains Periodic Acid)	8	III	NDA
IATA/ICAO	3264	Corrosive Liquid, Acidic, Inorganic, n.o.s. (Contains Periodic Acid)	8	III	NDA

14.6 Special precautions for user. None specified.**14.7 Transport in bulk according to IMO instruments.** Not relevant.**14.8 Other information.** None specified.**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA hazard classifications.****SARA 311/312 Hazards:** Acute health hazard**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)**

H271 - May cause fire or explosion; strong oxidizer.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 - Keep/Store away from clothing and other combustible materials.

P260 - Do not breathe dusts or mists.

P264 - Wash thoroughly after handling.

P273 - Avoid release to the environment.

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

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P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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Classification method for mixtures: Calculation method.

Last revision date: N/A

Preparation date: 02 March 2023

Changes to the current revision: New document.

Other information

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

Disclaimer/Statement of Liability. The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
