

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

**1.1 Product identifier**

**Product Name** • **Image Mate Reclaimer 660**

**Product Description** • Clear liquid.

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

**Relevant identified use(s)** • Screen mesh reclaimer

**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: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

**2.1 Classification of the substance or mixture**

**CLP** • Skin Irritation 2 - H315  
Eye Irritation 2 - H319

**2.2 Label Elements**

**CLP**

**WARNING**



**Hazard statements** • H315 - Causes skin irritation  
H319 - Causes serious eye irritation

**Prevention** • P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water and soap.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P321 - Specific treatment, see supplemental first aid information.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

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

## 2.3 Other Hazards

CLP • No data available

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## UN GHS Revision 6

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

### 2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2  
Eye Irritation 2

### 2.2 Label elements

UN GHS

#### WARNING



**Hazard statements** • Causes skin irritation  
Causes serious eye irritation

#### Precautionary statements

**Prevention** • Wash thoroughly after handling.

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

**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation occurs: Get medical advice/attention.

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.

Specific treatment, see supplemental first aid information.

Take off contaminated clothing and wash it before reuse.

**Storage/Disposal** • 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 • Skin Irritation 2  
Eye Irritation 2

### 2.2 Label elements

OSHA HCS 2012

#### WARNING



**Hazard statements** • Causes skin irritation  
Causes serious eye irritation

## Precautionary statements

- Prevention** • Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
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.  
Specific treatment, see supplemental first aid information.  
Take off contaminated clothing and wash before reuse.

- Storage/Disposal** • 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

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## Canada

According to: WHMIS 2015

## 2.1 Classification of the substance or mixture

- WHMIS 2015 • Skin Irritation 2  
Eye Irritation 2

## 2.2 Label elements

WHMIS 2015

### WARNING



- Hazard statements** • Causes skin irritation  
Causes serious eye irritation

## Precautionary statements

- Prevention** • Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
IF ON SKIN: Wash with plenty of water and soap.  
If skin irritation occurs: Get medical advice/attention.  
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.  
Specific treatment, see supplemental first aid information.  
Take off contaminated clothing and wash it before reuse.

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

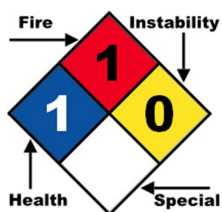
## 2.3 Other hazards

- WHMIS 2015 • No data available

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## 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
Periodic acid, sodium salt	CAS:7790-28-5 EC Number:232-197-6 EINECS:232-197-6	2% TO 3%	NDA	<b>EU CLP:</b> Skin Corr. 1C; Eye Dam 1; STOT RE 1; Aquatic Acute 1; Ox. Sol. 1 <b>UN GHS Revision 6:</b> Skin Corr. 1C; Eye Dam 1; STOT RE 1; Aquatic Acute 1; Ox. Sol. 1 <b>OSHA HCS 2012:</b> Skin Corr. 1C; Eye Dam 1; STOT RE 1; Ox. Sol. 1 <b>WHMIS 2015:</b> Skin Corr. 1C; Eye Dam 1; STOT RE 1; Ox. Sol. 1	NDA

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin** • IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- 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** • Material is non-combustible. In case of fire use media as appropriate for surrounding fire.
- 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.  
Material is non-combustible and is not expected to pose a fire or explosion hazard.

### 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** • Non-combustible, substance itself does not burn but may decompose upon heating to produce toxic fumes.

### 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. Ventilate enclosed areas.
- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

### 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

- Handling**
- Use good safety and industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

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

### 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**
- 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**

**Eye/Face**

**Hands**

**Skin/Body**

**General Industrial Hygiene Considerations**

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear protective eyewear (goggles, face shield, or safety glasses).
- Wear protective gloves - rubber or neoprene.
- Wear protective clothing - apron or other impervious body coverings.
- 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 Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear liquid.
Color	Colorless	Odor	Odorless
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	2.5
Specific Gravity/Relative Density	= 1.03 Water=1	Density	8.3 lbs/gal
Water Solubility	Dispersible	Viscosity	No data available
Explosive Properties	None.	Oxidizing Properties:	Mild oxidizer.
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	< 1 n-Butyl Acetate = 1	Volatiles (Wt.)	97.3 %
Flammability			
Flash Point	Not relevant	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

### 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 under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Excess heat. Incompatible materials.

### 10.5 Incompatible materials

- Reducing agents.

### 10.6 Hazardous decomposition products

- Heat can cause decomposition to oxygen and iodine vapors.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP• UN GHS 6• OSHA HCS 2012•

	WHMIS 2015•
Skin corrosion/Irritation	EU/CLP•Skin Irritation 2 UN GHS 6•Skin Irritation 2 OSHA HCS 2012•Skin Irritation 2 WHMIS 2015•Skin Irritation 2
Serious eye damage/Irritation	EU/CLP•Eye Irritation 2 UN GHS 6•Eye Irritation 2 OSHA HCS 2012•Eye Irritation 2 WHMIS 2015•Eye Irritation 2
Skin sensitization	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Respiratory sensitization	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Aspiration Hazard	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Carcinogenicity	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Germ Cell Mutagenicity	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
Toxicity for Reproduction	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
STOT-SE	EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015•
STOT-RE	EU/CLP• UN GHS• OSHA HCS 2012• WHMIS 2015•

**Target Organs**

**Medical Conditions Aggravated by Exposure**

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)**

**Chronic (Delayed)**

**Skin**

**Acute (Immediate)**

**Chronic (Delayed)**

**Eye**

**Acute (Immediate)**

**Chronic (Delayed)**

- Respiratory tract irritation
- Disorders of the skin, eye and lungs.

- May cause irritation.
- Repeated and prolonged exposure may cause irritation.

- Causes skin irritation.
- Repeated and prolonged exposure may cause irritation.

- Causes serious eye irritation.
- Repeated and prolonged exposure may be harmful.

## 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 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

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of Marpol 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

#### Inventory

Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
Periodic acid,	7790-28-5	Yes	Yes	Yes	Yes	Yes



sodium salt					
Inventory (Con't.)					
Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
Periodic acid, sodium salt	7790-28-5	Yes	Yes	Yes	Yes

## Canada

### Labor

Canada - WHMIS 1988 - Classifications of Substances

•Periodic acid, sodium salt

7790-28-5 C

## China

### Other

China - Classification and Labeling of Dangerous Chemical Substances Commonly Used

•Periodic acid, sodium salt

7790-28-5

Primary Symbol: 9 Primary  
Class: oxidizer Statements:  
5.70, 5.94, 5.110, 5.115

## Japan

### Other

Japan - Fire Service Law - Hazardous Materials

•Periodic acid, sodium salt

7790-28-5

Group 1 Oxidizing solids;  
Periodates; Hazard rank III

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- 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.
- P321 - Specific treatment, see supplemental first aid information.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Classification method for mixtures

- Calculation method.

### Revision Date

- 02 September 2016

### Last Revision Date

- 21 November 2013

### Other Information

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

### Disclaimer/Statement of Liability

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