

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

1.1 Product identifier

Product Name • **Stencil Remover 285**

Product Description • Clear liquid.

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

Relevant identified use(s) • Liquid stencil remover concentrate

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 • Oxidizing Liquids 2 - H272
Skin Corrosion 1 - H314
Serious Eye Damage 1 - H318

DSD/DPD • Corrosive (C)
R35

2.2 Label Elements

CLP

DANGER



Hazard statements • H272 - May intensify fire; oxidizer
H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary statements

- Prevention**
- P210 - Keep away from heat.
 - P220 - Keep/Store away from clothing and other combustible materials.
 - P221 - Take any precaution to avoid mixing with combustibles
 - P260 - Do not breathe dusts or mists.
 - P264 - Wash thoroughly after handling.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P363 - Wash contaminated clothing 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.
 - P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P310 - Immediately call a POISON CENTER or doctor/physician.
 - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P370+P378 - In case of fire: Use appropriate media for surrounding fire for extinction.
 - P321 - Specific treatment, see supplemental first aid information.

- Storage/Disposal**
- P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R35 - Causes severe burns.

- Safety phrases**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S36 - Wear suitable protective clothing.
 - S37 - Wear suitable gloves.
 - S39 - Wear eye/face protection.
 - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other Hazards

- CLP**
- No data available
- DSD/DPD**
- No data available

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

- UN GHS**
- Skin Corrosion 1A - H314
 - Serious Eye Damage 1 - H318
 - Oxidizing Liquids 2 - H272

2.2 Label elements

UN GHS

DANGER



- Hazard statements**
- H314 - Causes severe skin burns and eye damage
 - H318 - Causes serious eye damage
 - H272 - May intensify fire; oxidizer

Precautionary statements

- Prevention**
- P210 - Keep away from heat.
 - P220 - Keep/Store away from clothing and other combustible materials.
 - P221 - Take any precaution to avoid mixing with combustibles
 - P260 - Do not breathe dusts or mists.
 - P264 - Wash thoroughly after handling.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P363 - Wash contaminated clothing before reuse.
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 - P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P310 - Immediately call a POISON CENTER or doctor/physician.
 - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P370+P378 - In case of fire: Use appropriate media for surrounding fire for extinction.
 - P321 - Specific treatment, see supplemental first aid information.

- 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**
- Oxidizing Liquids 2 - H272
 - Skin Corrosion 1A - H314
 - Serious Eye Damage 1 - H318

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Causes severe skin burns and eye damage - H314
 - Causes serious eye damage - H318
 - May intensify fire; oxidizer - H272

Precautionary statements

- Prevention**
- Keep away from heat. - P210
 - Keep/Store away from clothing and other combustible materials. - P220

Take any precaution to avoid mixing with combustibles - P221
Do not breathe dusts or mists. - P260
Wash thoroughly after handling. - P264
Wear protective gloves/protective clothing/eye protection/face protection. - P280

- Response**
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
Wash contaminated clothing before reuse. - P363
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+P330+P331
Immediately call a POISON CENTER or doctor/physician. - P310
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
 - In case of fire: Use appropriate media for surrounding fire for extinction. - P370+P378
Specific treatment, see supplemental first aid information. - P321

- 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

- Corrosive - E
Oxidizing - C

2.2 Label elements

WHMIS



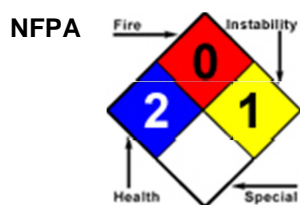
- Corrosive - E
Oxidizing - C

2.3 Other hazards

WHMIS

- No data available

2.4 Other information



Key to abbreviations

= See Section 16 for full text of R phrases

See Section 12 for Ecological 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
Iodic acid (H5IO6)	CAS:10450-60-9 EINECS:233-937-0	15%		WHMIS: UN GHS: Oxid. Solid 2;Skin Corr. 1B;Eye Dam. 1 EU DSD/DPD: EU CLP: OSHA HCS 2012:	
Sodium bisulfate	CAS:7681-38-1 EC Number:231-665-7 EINECS:231-665-7	5%		WHMIS: Corrosive - E UN GHS: Eye Dam. 1; Skin Corr. 1 EU DSD/DPD: Irritant(Xi); R41 EU CLP: OSHA HCS 2012:	

Key to abbreviations

= See Section 16 for full text of R phrases

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. 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. 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

- 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

- LARGE FIRES: Water spray or fog.
SMALL FIRES: Use water.

Unsuitable Extinguishing Media

- No data available

Firefighting Procedures

- LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire. 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

- These substances will accelerate burning when involved in a fire.

Hazardous Combustion Products

- Products of combustion include: iodine, iodine oxides, hydrogen iodide.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. 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. Wash away spilled liquid remainder with plenty of water.

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

- Handle and open container with care. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store locked up. Keep container closed when not in use. Keep away from incompatible materials. Ventilate enclosed areas.

Incompatible Materials or Ignition Sources

- Will react violently with reducing agents.

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

- Do not breathe vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear splash goggles.

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	Colorless	Odor	Odorless
Taste	Not relevant	Odor Threshold	Not relevant
Physical and Chemical Properties	Not relevant		
General Properties			
Boiling Point	100 C(212 F)	Melting Point	Not relevant
Decomposition Temperature	Not relevant	pH	<= 2
Specific Gravity/Relative Density	Not relevant	Water Solubility	Miscible
Viscosity	Not relevant	Explosive Properties	Not relevant
Oxidizing Properties:	Oxidizing liquid.		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
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
Bioaccumulation Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Degradation	No data available		

9.2 Other Information

- No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- Reacts with reducing agents and readily oxidized materials.

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

- Incompatible materials.

10.5 Incompatible materials

- Reducing agents.

10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - iodine, iodine oxides, hydrogen iodide.

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•Skin Corrosion 1A OSHA HCS 2012•Skin Corrosion 1A UN GHS•Skin Corrosion 1A
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•Serious Eye Damage 1 OSHA HCS 2012•Serious Eye Damage 1 UN GHS•Serious Eye Damage 1

Route(s) of entry/exposure • Skin, Eye

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause respiratory 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 will cause severe irritation and/or 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 irritation and/or burns to the gastrointestinal tract.

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	3098	Oxidizing liquid, corrosive, n.o.s. (periodic acid solution)	5.1, 8	III	NDA
IMO/IMDG	3098	Oxidizing liquid, corrosive, n.o.s.	5.1, 8	III	NDA

		(periodic acid solution)			
IATA/ICAO	3098	Oxidizing liquid, corrosive, n.o.s. (periodic acid solution)	5.1, 8	III	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.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

Inventory

Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
Iodic acid (H5IO6)	10450-60-9	Yes	Yes	Yes	Yes	Yes
Sodium bisulfate	7681-38-1	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)

Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
Iodic acid (H5IO6)	10450-60-9	Yes	Yes	Yes	Yes
Sodium bisulfate	7681-38-1	Yes	Yes	Yes	Yes

Australia

Labor

Australia - List of Designated Hazardous Substances - Classification

- Sodium bisulfate 7681-38-1 5% Xi R41
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Sodium bisulfate 7681-38-1 5% E
- Iodic acid (H5IO6) 10450-60-9 15% C; Uncontrolled product according to WHMIS classification criteria (1%)

Canada - WHMIS - Ingredient Disclosure List

- Sodium bisulfate 7681-38-1 5% 1 %
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Europe

Other

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

- Sodium bisulfate 7681-38-1 5% Xi; R41
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

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

- Sodium bisulfate 7681-38-1 5% Xi R:41 S:(2)-24-26
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

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

- Sodium bisulfate 7681-38-1 5% S:(2)-24-26
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

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

- Sodium bisulfate 7681-38-1 5%
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Germany

Environment

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

- Sodium bisulfate 7681-38-1 5% ID Number 376, hazard class 1 - low hazard to waters
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Japan

Environment

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

- Sodium bisulfate 7681-38-1 5% 1-(3)-227
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Other

Japan - Drinking Water Quality Standards - Supplied Water Quality Standard Values

- Sodium bisulfate 7681-38-1 5% 200 mg/L (as Na, listed under Sodium and its compounds)
- Iodic acid (H5IO6) 10450-60-9 15% Not Listed

Japan - Fire Service Law - Hazardous Materials

- Sodium bisulfate 7681-38-1 5% Not Listed
- Iodic acid (H5IO6) 10450-60-9 15% Group 1 - Oxidizing solids III (listed under Periodic acid)

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)

- P370+P378 - In case of fire: Use appropriate media for extinction.
H272 - May intensify fire; oxidizer
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
P210 - Keep away from heat.
P220 - Keep/Store away from clothing and other combustible materials.
P221 - Take any precaution to avoid mixing with combustibles
P260 - Do not breathe dusts or mists.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: 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.
P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment, see supplemental first aid information.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
R35 - Causes severe burns.
R41 - Risk of serious damage to eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 - Wear suitable protective clothing.
S37 - Wear suitable gloves.
S39 - Wear eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Classification method for mixtures

- Calculation method.

Last Revision Date

- 07 December 2012

- Preparation Date** • 01 June 2015
- 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.
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