

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

2.1 Classification of the substance or mixture

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

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.

2.3 Other Hazards

- CLP • No data available

UN GHS

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

2.1 Classification of the substance or mixture

- UN GHS • Skin Corrosion 1A
Serious Eye Damage 1
Oxidizing Liquids 2

2.2 Label elements

UN GHS

DANGER



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

Precautionary statements

- Prevention** • Keep away from heat.
Keep/Store away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustibles
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor/physician.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of fire: Use appropriate media for surrounding fire for extinction.
Specific treatment, see supplemental first aid information.

- Storage/Disposal** • Store locked up.
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
Skin Corrosion 1A
Serious Eye Damage 1

2.2 Label elements

OSHA HCS 2012

DANGER



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

Precautionary statements

- Prevention**
- Keep away from heat.
 - Keep/Store away from clothing and other combustible materials.
 - Take any precaution to avoid mixing with combustibles
 - Do not breathe dusts or mists.
 - Wash thoroughly after handling.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - Wash contaminated clothing before reuse.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - Immediately call a POISON CENTER or doctor/physician.
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - In case of fire: Use appropriate media for surrounding fire for extinction.
 - Specific treatment, see supplemental first aid information.

- Storage/Disposal**
- Store locked up.
 - 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

- Oxidizing Liquids 2
Skin Corrosion 1A
Serious Eye Damage 1

2.2 Label elements

WHMIS 2015

DANGER



Hazard statements • May intensify fire; oxidizer
Causes severe skin burns and eye damage.
Causes serious eye damage

Precautionary statements

Prevention • Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from clothing and other combustible materials.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

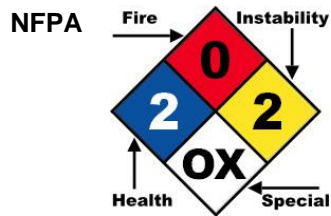
Response • IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER/doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
In case of fire: Use appropriate media for surrounding fire to extinguish.
Specific treatment, see supplemental first aid information.

Storage/Disposal • Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Other hazards

WHMIS 2015 • No data available

2.4 Other information



See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

| Composition | | | | |
|--------------------|--|-----|-----------|--|
| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive |
| Iodic acid (H5IO6) | CAS:10450-60-9 EINECS:233-937-0 | 15% | | CLP / GHS / OSHA / WHMIS: Oxid. Solid 2;Skin Corr. 1B;Eye Dam. 1 |
| Sodium bisulfate | CAS:7681-38-1 EC Number:231-665-7 EINECS:231-665-7 | 5% | | CLP / GHS / OSHA / WHMIS: Skin Corr. 1;Eye Dam. 1 |

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. 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 Basic 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/Freezing 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 |
|-------------------------------|---|
| Skin corrosion/Irritation | EU/CLP•Skin Corrosion 1A UN GHS 6•Skin Corrosion 1A OSHA HCS 2012•Skin Corrosion 1A WHMIS 2015• |
| Serious eye damage/Irritation | EU/CLP•Serious Eye Damage 1 UN GHS 6•Serious Eye Damage 1 OSHA HCS 2012•Serious Eye Damage 1 WHMIS 2015• |

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. (periodic acid solution) | 5.1 (8) | III | NDA |
| 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 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 | |

Germany

Environment

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

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

Japan

Environment

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

| | | |
|---------------------|------------|--|
| •Sodium bisulfate | 7681-38-1 | 1-(3)-227; (1)-501 (ENCS inventory number, considered an existing substance based on the Industrial Safety and Health Law) |
| •Iodic acid (H5IO6) | 10450-60-9 | (1)-368 (ENCS inventory number, considered an existing substance based on the Industrial Safety and Health Law) |

Other

Japan - Fire Service Law - Hazardous Materials

| | | |
|---------------------|------------|--|
| •Sodium bisulfate | 7681-38-1 | Not Listed |
| •Iodic acid (H5IO6) | 10450-60-9 | Group 1 Oxidizing solids; Periodic acid; Hazard rank III |

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 substances known to the State of California to cause cancer or reproductive toxicity.

Section 16 - Other Information

Relevant Phrases (code & full text)

- 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.
- P370+P378 - In case of fire: Use appropriate media for surrounding fire for extinction.
- 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.
- Revision Date** • 01 July 2021
- Last Revision Date** • 13 July 2018
- 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.