

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 09/25/18

# Delasco

Issue date 06/11/15

### \* 1 Identification

- **Product identifier**
- **Trade name: Iodine Stain Remover**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information
- **Product description** 3% Sodium Thiosulfate in 50% Isopropanol
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Dermatologic Lab & Supply, Inc.  
608 13th Ave.  
Council Bluffs, IA USA 51501-6401  
Voice: (800) 831-6273 or (712) 323-3269  
Fax: (800) 320-9612 or (712) 323-1156  
www.delasco.com
- **Emergency telephone number:** Chemtrec 800-424-9300

### \* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2AH319 Causes serious eye irritation.

STOT SE 3H336 May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Isopropyl alcohol

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

#### · Hazard statements

Highly flammable liquid and vapor.  
Causes serious eye irritation. May cause drowsiness or dizziness. ·

#### · Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves / eye protection / face protection.  
Wear eye protection / face protection.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash thoroughly after handling.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use for extinction: CO2, powder or water spray.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Unknown acute toxicity:

3 percent of the mixture consists of ingredient(s) of unknown toxicity.

#### · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

#### · NFPA ratings (scale 0 - 4)



Health = 1  
Fire = 3  
Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



Health = 1  
Fire = 3  
Reactivity = 0

#### · Hazard(s) not otherwise classified (HNOC): None known

### \* 3 Composition/information on ingredients

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous Components:

CAS: 67-63-0	Isopropyl alcohol	25-50%
RTECS: NT 8050000	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

**Trade name: Iodine Stain Remover**

### \* 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
In case of unconsciousness, place patient securely on side position for transportation.

- **After skin contact:**

Generally the product does not irritate the skin.  
Wash with soap and water. If skin irritation occurs, consult a doctor.

- **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Do not induce vomiting without medical advice. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### \* 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture:** No further relevant information available.

**Advice for firefighters:** Use water spray to cool unopened containers.

- **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid contact with skin, eyes and clothing.

Keep people at a distance and stay upwind.

Keep away from ignition sources Do not inhale gases / fumes

/aerosols Treat any fumes as toxic. Wear protective

equipment. Keep unprotected persons away.

- **Environmental precautions:**

Dilute with plenty of water. Do not allow to enter  
sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation. Dispose of the collected  
material according to regulations.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

**Trade name: Iodine Stain Remover**

### \* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Avoid contact with skin, eyes and clothing  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.  
Do not cut, grind or weld on container that contains or contained product.  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities** Store away from strong oxidizing agents, acid anhydrides, Halogenated compounds and strong acids.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

### \* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**  
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

- **Components with occupational exposure limits:**

#### 67-63-0 Isopropyl alcohol

PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI

- **Ingredients with biological limit values:**

#### 67-63-0 Isopropyl alcohol

BEI	40 mg/L urine end of shift at end of workweek Acetone (background, nonspecific)
-----	--

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment:**

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes. Avoid contact with the eyes and skin.

- **Breathing equipment:**



Suitable respiratory protective device recommended.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Not required.

### \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information · Appearance:**

- |   |                 |
|---|-----------------|
| · <b>Form:</b>                          | Liquid          |
| · <b>Color:</b>                         | Colorless       |
| · <b>Odor:</b>                          | Alcohol         |
| · <b>Odor threshold:</b>                | Not determined. |
| · <b>pH-value:</b>                      | Not determined. |
| · <b>Change in condition</b>            |                 |
| · <b>Melting point/Melting range:</b>   | Not determined. |
| · <b>Boiling point/Boiling range:</b>   | 83 °C (181 °F)  |
| · <b>Flash point:</b>                   | 12 °C (54 °F)   |
| · <b>Flammability (solid, gaseous):</b> | Not applicable. |

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

- **Ignition temperature:** 456 °C (853 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
  - Lower:** 0.0 Vol %
  - Upper:** 12.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density:**
  - Relative density** Not determined.
  - Vapor density** Not determined.
  - Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
  - Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 50.0 %
  - Water:** 47.0 %
  - VOC content:** 50.0 %
  - Solids content:** 3.0 %
- **Other information** No further relevant information available.

### \* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, flame and ignition sources.
- **Incompatible materials:** Strong oxidizing agents, acid anhydrides, Halogenated compounds and strong acids.
- **Hazardous decomposition products:** Carbon Oxides, Sodium Oxides and Sulfur Oxides.

### \* 11 Toxicological information

#### · Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 67-63-0 Isopropyl alcohol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
	LC50/96 hours	9640 mg/l (Pimephales)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:**  
Irritating effect. Causes serious eye irritation.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans

67-63-0	Isopropyl alcohol	3
---------	-------------------	---

#### · **NTP (National Toxicology Program)**

None of the ingredients are listed.

#### · **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

### \* 12 Ecological information

#### · **Toxicity**

##### · **Aquatic toxicity:**

#### **67-63-0 Isopropyl alcohol**

EC50	6851 mg/l (Green algae)
	5102 mg/l (Water flea)

- **Persistence and degradability** No further relevant information available.

#### **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

**Additional ecological information:** · **General notes:** Not known to be hazardous to water.

#### · **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### \* 13 Disposal considerations

#### · **Waste treatment methods**

##### **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### · **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

Trade name: Iodine Stain Remover

### \* 14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA** UN1993

- **UN proper shipping name**

- **DOT**

Flammable liquids, n.o.s. (Isopropanol)

- **ADR**

UN1993 Flammable liquids, n.o.s. mixture

- **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. mixture

- **Transport hazard class(es)**

- **DOT**



- **Class**

3 Flammable liquids

- **Label**

3

- **ADR**



- **Class**

3 (F1) Flammable liquids

- **Label**

3

- **IMDG, IATA**



- **Class**

3 Flammable liquids

- **Label**

3

- **Packing group**

- **DOT, ADR, IMDG, IATA**

II

- **Environmental hazards:**

Not applicable.

- **Special precautions for user**

Warning: Flammable liquids

- **Danger code (Kemler):**

33

- **EMS Number:**

F-E, S-E

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

- **DOT**

- **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

- **ADR**

- **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- **IMDG**



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>UN "Model Regulation":</b></li> </ul> | <p>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml<br/>UN1993, Flammable liquids, n.o.s. mixture, 3, II</p> |
|--|--|

### \* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropyl alcohol

- **TSCA (Toxic Substances Control Act):**

67-63-0 Isopropyl alcohol

7732-18-5 Water, distilled water, deionized water

- **California Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

- **TLV (Threshold Limit Value established by ACGIH)**

67-63-0 Isopropyl alcohol

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

**Trade name: Iodine Stain Remover**

GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Isopropyl alcohol
- **Hazard statements**

Highly flammable liquid and vapor.  
Causes serious eye irritation. May cause drowsiness or dizziness.

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves / eye protection / face protection.  
Wear eye protection / face protection.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash thoroughly after handling.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

**State Right to Know**

CAS: 67-63-0	Isopropyl alcohol	25-50%
RTECS: NT 8050000	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 7732-18-5	Water, distilled water, deionized water	25-50%
CAS: 10102-17-7	Sodium Thiosulfate Pentahydrate	2-12%

All ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/15

Reviewed on 09/25/18

### Trade name: Iodine Stain Remover

establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision**

06/11/2015 / 09/24/18

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106