

## Safety Data Sheet IDO DISINFECTANT

### SECTION 1- PRODUCT IDENTIFICATION

<b>PRODUCT NAME</b>	IDO DISINFECTANT
<b>PRODUCT CODE</b>	5135
<b>SYNONYMS</b>	Product is a mixture: No synonyms are available
<b>PRODUCT USE</b>	Highly Acidic Material – Disinfectant Sanitizer
<b>SUPPLIER</b>	WINSOL Laboratories Inc. 1417 NW 51 <sup>st</sup> Seattle, WA 98107
<b>EMERGENCY RESPONSE PHONE</b>	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

### SECTION 2 – HAZARD IDENTIFICATION

**GHS – US CLASSIFICATION**

:	H290	Metal corrosion Category 1
	H302	Harmful if swallowed
:	H314	Skin Corrosion Category 1B
:	H318	Serious Eye Damage Category 1
:	H370	STOT SE 1
:	H410	Hazardous to the aquatic environment – long term hazard Category 1

**HAZARD PICTOGRAMS**

:



**SIGNAL WORD**

: **DANGER**

**GHS LABEL ELEMENTS**

: The product is classified and labeled according to the Globally Harmonized System (GHS).

**GHS PHYSICAL HAZARDS**

:	H290	May be corrosive to metals.
	H302	Harmful if swallowed
:	H314	Causes severe skin burns and eye damage.
:	H318	Causes serious eye damage.

**GHS PRECAUTIONARY HAZARDS**

:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
	P260	Do not breathe dust/fume/gas/mist/vapors/spray.
	P264	Wash skin and contaminated clothing thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear suitable protective gloves/protective clothing/eye protection/face protection.
:	P301+P330 +P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
	P310	Immediately call a POISON CENTER or doctor/physician.
	P303+P361 +P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P305+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position.
	P330	Rinse mouth if ingested.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**CLASSIFICATION SYSTEM:**

: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

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**NFPA ratings (scale 0-4):** : Health = 3, Fire = 0, Reactivity = 1

**HMIS ratings (scale 0-5):** : Health = 3, Fire = 0, Reactivity = 1

**ENVIRONMENTAL HAZARDS (EPA REGISTERED PESTICIDE)** : This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL CHARACTERIZATION** : Mixtures  
**DESCRIPTION** : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Phosphoric acid	10-30	7664-38-2	231-633-2	Skin Corr Cat 1B, Eye Dam Cat 1
Iodine	1-5	7553-56-2	231-442-4	Skin Corr Cat 1C, Eye Dam Cat 1, Acute Aquatic Cat 1, Acute Inhal Cat 4, Acute Tox Dermal Cat 4, Acute Tox Oral Cat 4

Corr = Corrosion, Cat = Category, Tox = Toxicity, Inhal = Inhalation, Dam = Damage,  
 Also contains non hazardous biodegradable surfactant(s).

### SECTION 4 – FIRST AID MEASURES

**EYE CONTACT** : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

**SKIN CONTACT** : Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before reuse.

**SWALLOWING (INGESTION)** : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

**INHALATION** : When symptoms occur, go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor/physician.

**GENERAL MEASURES** : Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

### SECTION 5 – FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA** : Water spray, fog, carbon dioxide, foam, dry chemical

**SPECIAL HAZARDS (FIRE)** : Not flammable. Contains sodium hypochlorite which may act as an oxidizer in some cases intensifying a fire.

**EXPLOSION HAZARDS** : Product is not explosive.

**REACTIVITY (FIRE)** : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

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#### SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

- PRECAUTIONARY MEASURES** : Exercise caution when fighting any chemical fire.  
**FIRE FIGHTING INSTRUCTIONS** : Use water spray or fog for cooling exposed containers.  
**PROTECTION DURING FIRE FIGHTING** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**HAZARDOUS COMBUSTION PRODUCTS** : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>). Explosive Hydrogen gas.  
**OTHER INFORMATION (FIRE)** : Do not allow run-off from fire fighting to enter drains or water courses.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.  
**ENVIRONMENTAL PRECAUTIONS** : Keep spilled material away from sewage/drainage systems and waterways. If amounts exceeding the Reportable Quantity (5000 lbs. as phosphoric acid) are released, notification of the National Response Center (800) 424-8802 is required. See section 15 for more information.  
**METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP** : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

#### SECTION 7 – HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.  
**CONDITIONS FOR SAFE STORAGE** : Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).



#### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- TLV (THRESHOLD LIMIT VALUE)** : The TLV in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	USA OSHA PEL – TWA	USA ACGIH TWA	USA ACGIH – STEL
Phosphoric acid	1 mg/m <sup>3</sup>	1mg/m <sup>3</sup>	3mg/m <sup>3</sup>
Iodine	Not Established	0.01 ppm (inhalable)	0.1 ppm (Ceiling)

- EYE PROTECTION** : Wear chemical splash goggles or face shield.  
**SKIN PROTECTION** : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

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- RESPIRATORY PROTECTION** : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- VENTILATION** : Ensure adequate ventilation.
- ADDITIONAL MEASURES** : Emergency eyewash and safety shower facilities should be available in the immediate work area.
- REQUIRED WORK/HYGIENE** : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

#### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE** : Clear dark reddish brown liquid.
- ODOR** : Mild odor
- ODOR THRESHOLD** : Not available
- PH** : < 2.0
- MELTING POINT/FREEZING POINT** : Not available
- BOILING POINT** : Not available
- FLASHPOINT** : Not applicable
- EVAPORATION RATE** : Not available
- FLAMMABILITY** : Non flammable, Non combustible
- LOWER FLAMMABILITY LIMIT** : Not applicable
- UPPER FLAMMABILITY LIMIT** : Not applicable
- VAPOR PRESSURE** : Not available
- VAPOR DENSITY (AIR=1)** : Not available
- RELATIVE DENSITY** : 1.11
- SOLUBILITY IN WATER** : Soluble in water
- PARTITION COEFFICIENT n-OCTANOL/WATER** : Not available
- AUTOIGNITION TEMPERATURE** : Not available
- DECOMPOSITION TEMPERATURE** : Not available

#### SECTION 10 – STABILITY AND REACTIVITY

- REACTIVITY** : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
- STABILITY** : Stable under recommended storage conditions.
- HAZARDOUS CONDITIONS TO AVOID** : Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.
- INCOMPATIBLE MATERIALS** : Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Carbon oxides (CO, CO<sub>2</sub>). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

#### SECTION 11 – TOXICOLOGICAL INFORMATION

- TOXICOLOGICAL INFORMATION** : **Phosphoric Acid**
- ACUTE ORAL TOXICITY** : LD50 (rat) is greater than 1,530 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).
- ACUTE DERMAL TOXICITY** : LD50 (rat) is greater than 3,160 mg/kg (ppm); not acutely toxic by dermal exposure.

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<b>ACUTE INHALATION TOXICITY</b>	: (TFI Product Testing Results, OECD Guideline 402). : LC50 (guinea pig, mouse, rat, rabbit) is 61-1,689 mg/m <sup>3</sup> ; highly toxic by inhalation. (TFI Product Testing Results)
<b>ACUTE FISH TOXICITY</b>	: 96-hour LC <sub>50</sub> is 3.0-3.5 mg/L (ppm); moderate toxicity to aquatic organisms. (TFI Product testing Results, OECD Guideline 203).
<b>CARCINOGENICITY</b>	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
<b>TOXICOLOGICAL INFORMATION</b>	: <b>Iodine</b>
<b>SYMPTOMS</b>	: Allergies, Impaired Kidney Function, Cardiovascular system, Central Nervous System Disorders, Pulmonary Edema, Headache.
<b>ACUTE TOXICITY</b>	: LD50 Oral (rat): 14g/kg, LD50 Dermal: Not Established, LC50 Inhalation: Not Established.
<b>CARCINOGENICITY</b>	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, NTP, and OSHA.
<b>SENSITISATION</b>	: Evidence of a sensitization effects.
<b>TARGET ORGAN EFFECTS</b>	: Acute & Chronic: No data available.
<b>CHRONIC</b>	

#### SECTION 12 – ECOLOGICAL INFORMATION

<b>ECOLOGICAL INFORMATION</b>	: <b>Phosphoric Acid</b>
<b>AQUATIC TOXICITY</b>	: Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift. Insufficient data available on eco-toxicity. LC50/96hour: 138mg/L (Gambusia Afinis).
<b>PERSISTENCE AND DEGRADABILITY</b>	: No relevant information available.
<b>BIOACCUMULATIVE POTENTIAL</b>	: No relevant information available.
<b>NOTES</b>	: Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinsing larger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.
<b>ECOLOGICAL INFORMATION OVERVIEW</b>	: <b>Iodine</b> : Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
<b>MOBILITY</b>	: This material is expected to have moderate mobility in soil. It absorbs to most soil types.
<b>PERSISTENCE</b>	: Adsorbs to sediment, evaporates into atmosphere.
<b>BIOACCUMULATION AND DEGRADATION</b>	: Bio-concentration may occur. Naturally occurring element. Does not biodegrade.

#### SECTION 13 – DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL RECOMMENDATIONS</b>	: This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosively. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.
<b>ECOLOGY-WASTE MATERIALS</b>	: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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**DOT/IMDG/ IATA PROPER SHIPPING NAME** : UN-1805, PHOSPHORIC ACID, SOLUTION 8, PG-III

**HAZARD CLASS AND LABEL** : 8 (Corrosive)

**UN NUMBER** : UN 1805

**PACKAGING GROUP** : PG-III

**EPA REPORTABLE QUANTITY (RQ)** : 5000 LBS. (454 KG) as Phosphoric acid 100%.

**MARINE POLLUTANT** : Marine Pollutant

**EMERGENCY RESPONSE GUIDE** : ERG-154



### SECTION 15 – REGULATORY INFORMATION

#### U.S. FEDERAL REGULATORY INFORMATION:

**LISTED CARCINOGEN** : Not listed

**TSC STATUS** : The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)

**SARA SECTION 302** : 1,000 lbs. (Sulfuric acid), 100 lbs. (Hydrogen Fluoride)

**SARA SECTION 311/312 HAZARD CLASS** : Immediate (acute) health hazard. Reactive hazard. (Sulfuric acid)

**SARA SECTION 313** : Sulfuric acid (as mist/aerosol only). Hydrochloric acid (as mist/aerosol only). Phosphoric acid, CAS No. 7664-38-2, which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments Act of 1986 and 40 CFR Part 372.

**NFPA HEALTH** : 3

**NFPA FLAMMABILITY** : 0

**NFPA REACTIVITY** : 1

#### EUROPEAN UNION REGULATORY INFORMATION:

**EC CLASSIFICATION** : C: Corrosive, Xn: Harmful.

**DSD/DPD RISK (R) PHRASES** : R34: Causes severe burns.  
R22: Harmful if swallowed.

**DSD/DPD SAFETY (S) PHRASES** : S1/2: Keep locked up and out of reach of children.  
S18: Handle and open containers with care.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.  
S61: Avoid release to the environment.  
S64: If swallowed, rinse mouth with water if victim is conscious.

**DSD/DPD HAZARD SYMBOL** : C: Corrosive, Xn: Harmful



#### CANADIAN REGULATORY INFORMATION

**WHMIS CATEGORY** : Class E: Corrosive  
Class D2B: Materials that cause other toxic effects (TOXIC).



**DOMESTIC SUBSTANCES LIST (DSL)** : Listed

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**INGREDIENT DISCLOSURE LIST** : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.

### SECTION 16 – OTHER INFORMATION

**DISCLAIMER** : The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Winsol Laboratories Inc. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

**CERCLA** : Comprehensive Environmental Response, Compensation, and Liability Act.  
**EINECS** : European Inventory of Existing Commercial Chemical Substances  
**IMDG** : International Maritime Code for Dangerous Goods  
**IARC** : International Agency for Research on Cancer  
**IATA** : International Air Transportation Association  
**ACGIH** : American Conference of Governmental Industrial Hygienists  
**NFPA** : National Fire Protection Association (USA)  
**NTP** : National Toxicology Program  
**SARA** : Superfund Amendments and Reauthorization Act  
**TSCA** : Toxic Substances Control Act  
**HMIS** : Hazardous Materials Identification System (USA)  
**WHMIS** : Workplace Hazardous Materials Information System  
**LC50** : Lethal concentration, 50 percent  
**LD50** : Lethal dose, 50 percent  
**STOT** : Systemic Target Organ Toxicity  
**DATE PREPARED** : JAN 12, 2011  
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