




# Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	3	Reactivity	0		
Health Hazard	1								
Fire Hazard	3								
Reactivity	0								

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Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** King Pine Dark 32 oz

**Recommended Use** Cleaning agent.

**Supplier Address**

LUIS GARRATON INC  
 URB. IND. LUCHETTI CARR#28  
 AVE. CENTRAL JUANITA FINAL,  
 BAYAMON, PUERTO RICO, 00961  
 PR

Phone:787-788-6100

Fax:787-300-4909

Contact:LAURA ARROYO

Contact Phone:787-788-6100

Emergency Phone: 787-300-4913

**Company Emergency Phone Number** 787-300-4913

## 2. HAZARDS IDENTIFICATION

**WARNING!**

**Emergency Overview**

FLAMMABLE LIQUID AND VAPOR

May be harmful if swallowed, inhaled, or absorbed through skin

Irritating to eyes, respiratory system and skin

**Appearance** Dark brown

**Physical State** Liquid

**Odor** Pine

**Potential Health Effects**

**Principle Routes of Exposure**

Inhalation, Skin contact, Eye contact.

**Acute Toxicity**

**Eyes**

Irritating to eyes.

**Skin**

May be harmful in contact with skin. Irritating to skin.

<b>Inhalation</b>	May be harmful if inhaled. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic Effects</b>	Prolonged skin contact may defat the skin and produce dermatitis.
<b>Aggravated Medical Conditions</b>	Preexisting eye disorders. Skin disorders. Respiratory disorders.
<b>Environmental Hazard</b>	See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	30 - 60
Pine oil	8002-09-3	10 - 30
Isopropyl alcohol	67-63-0	10 - 30
Tall oil	8002-26-4	5 - 10
Potassium hydroxide	1310-58-3	1 - 5

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
<b>Ingestion</b>	Call a physician or Poison Control Center immediately. Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Flammable; may be ignited by heat, sparks or flames.
<b>Flash Point</b>	31°C / 88°F
<b>Suitable Extinguishing Media</b>	Use: Dry chemical. Carbon dioxide (CO <sub>2</sub> ) . Water spray. Alcohol-resistant foam.
<b>Uniform Fire Code</b>	<ul style="list-style-type: none"> <li>Flammable Liquid: I-C</li> <li>Other Health Hazard: Target Organ Toxin--Liquid</li> <li>Irritant: Liquid</li> </ul>
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Hazardous Combustion Products</b>	Carbon oxides
<b>Explosion Data</b>	
Sensitivity to mechanical impact	Not sensitive
Sensitivity to static discharge	Yes.

**Specific Hazards Arising from the Chemical**

Flammable. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**                      **Health Hazard 1**                      **Flammability 3**                      **Stability 0**                      **Physical and Chemical Hazards -**

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**                      Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment.

**Methods for Containment**                      Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**                      Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE**

**Handling**                      Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**                      Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 1225 mg/m <sup>3</sup> (vacated) STEL: 500 ppm	IDLH: 2000 ppm
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Engineering Measures**                      Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection**                      Safety glasses with side-shields.

**Skin and Body Protection**                      Protective gloves.

**Respiratory Protection**                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**                      When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown	<b>Odor</b>	Pine.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	9		
<b>Flash Point</b>	31°C / 88°F	<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No information available.	<b>Boiling Point/Range</b>	0°C / 32°F
<b>Melting Point/Range</b>	No information available.		
<b>Flammability Limits in Air</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Water Solubility</b>	Soluble in water	<b>Solubility</b>	No information available.
<b>Evaporation Rate</b>	No information available.	<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available	<b>VOC Content</b>	10.08
<b>Partition Coefficient (n-octanol/water)</b>			

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Incompatible with strong acids and bases. Incompatible with oxidizing agents. Chlorinated compounds.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Formaldehyde.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information</b>	May be harmful by inhalation, ingestion, or skin absorption.
<b>Irritation</b>	Irritating to eyes, respiratory system and skin.
<b>LD50 Oral VALUE (mg/kg)</b>	5000 mg/kg
<b>LD50 Dermal VALUE</b>	2000 mg/kg

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90 mL/kg ( Rat )		
Pine oil	3200 mg/kg ( Rat )	5 g/kg ( Rabbit )	
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rat )	72.6 mg/L ( Rat ) 4 h

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tall oil	7600 mg/kg ( Rat )		
Potassium hydroxide	214 mg/kg ( Rat )		

**Chronic Toxicity**

**Chronic Toxicity** Prolonged skin contact may defat the skin and produce dermatitis.

**Target Organ Effects** Eyes, Respiratory system, Skin.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Pine oil				EC50 = 3.32 mg/L 48 h
Isopropyl alcohol	EC50 > 1000 mg/L 72 h	LC50= 61200 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h
Tall oil	EC50 = 0.87 mg/L 72 h	LC50 5 - 10 mg/L Brachydanio rerio 96 h		EC50 = 39.7 mg/L 48 h

Chemical Name	Log Pow
Isopropyl alcohol	0.05
Potassium hydroxide	0.65
	0.83

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Do not re-use empty containers.

**US EPA Waste Number** D001

**California Hazardous Waste Codes** 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol	Toxic, Ignitable
Potassium hydroxide	Toxic; Corrosive

## 14. TRANSPORT INFORMATION

**DOT**

**Proper Shipping Name** Consumer commodity  
**Hazard Class** ORM-D  
**Reportable Quantity (RQ)** Potassium hydroxide, RQ kg= 13969.23  
**Description** Consumer commodity, ORM-D,, RQ

**TDG**

**Proper Shipping Name** Flammable liquid, n.o.s.

<b>14. TRANSPORT INFORMATION</b>
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<b>Hazard Class</b>	3
<b>UN-No</b>	UN1993
<b>Packing Group</b>	III
<b>Description</b>	FLAMMABLE LIQUID, N.O.S.(Isopropyl alcohol ),3,UN1993,PG III

**MEX**

<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1993
<b>Packing Group</b>	III
<b>Description</b>	UN1993 Flammable liquid, n.o.s.(Isopropyl alcohol ),3,III

**ICAO**

<b>UN-No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Description</b>	Flammable liquid, n.o.s.(Isopropyl alcohol ),3,UN1993,PG III

**IATA**

<b>UN-No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>ERG Code</b>	3L
<b>Description</b>	UN1993,Flammable liquid, n.o.s.(Isopropyl alcohol ),3,PG III

**IMDG/IMO**

<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>Subsidiary Class</b>	+
<b>UN-No</b>	UN1993
<b>Packing Group</b>	III
<b>EmS No.</b>	F-E, S-E
<b>Description</b>	UN1993, Flammable liquid, n.o.s.(Isopropyl alcohol ),3(+),PG III

**RID**

<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1993
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Description</b>	UN1993 Flammable liquid, n.o.s.(Isopropyl alcohol ),3,III,RID
<b>ADR/RID-Labels</b>	3

**ADR**

<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1993
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Description</b>	UN1993 Flammable liquid, n.o.s.(Isopropyl alcohol ),3,III

**ADN**

**14. TRANSPORT INFORMATION**

<b>Proper Shipping Name</b>	Flammable liquid, n.o.s.
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Classification Code</b>	F1
<b>Special Provisions</b>	274, 330, 601, 640E
<b>Description</b>	UN1993 Flammable liquid, n.o.s.(Isopropyl alcohol ),3,III
<b>Hazard Labels</b>	3
<b>Limited Quantity</b>	LQ7
<b>Ventilation</b>	VE01

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>CHINA</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	10 - 30	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Isopropyl alcohol				X
Potassium hydroxide	1000 lb			X

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Potassium hydroxide	1000 lb	

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium hydroxide	X	X	X		X
Pine oil		X			
Isopropyl alcohol	X	X	X		X

**International Regulations**

**Mexico - Grade** Moderate risk, Grade 2

Chemical Name	Carcinogen Status	Exposure Limits
Isopropyl alcohol		Mexico: TWA= 400 ppm Mexico: TWA= 980 mg/m <sup>3</sup> Mexico: STEL= 1225 mg/m <sup>3</sup> Mexico: STEL= 500 ppm

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid

D2B Toxic materials



Chemical Name	NPRI
Isopropyl alcohol	X

**16. OTHER INFORMATION**

**Issuing Date** 29-Oct-2007  
**Revision Date** 29-Oct-2007  
**Revision Note** No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS