

# KSolve™

# SAFETY DATA SHEET

Preparation Date: 04-Apr-2007

Revision Date: 09-Sep-2021

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Name KSolve™

### Other means of identification

Item#: 2153

Synonyms None

### Recommended use of the chemical and restrictions on use

**Recommended use** Solvent cleaning additive for detergents, Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment

**Uses advised against** All other

### Details of the supplier of the safety data sheet

**Supplier** DeLaval Cleaning Solutions  
11100 N. Congress Ave.  
Kansas City, MO 64153 : 816-891-7700, 8am – 5pm M-F

### Emergency Telephone Number

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

Harmful if swallowed  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Highly flammable liquid and vapor

**Appearance** Blue**Physical state** Liquid**Odor** No information available**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep cool

**Precautionary Statements - Response**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Isopropyl alcohol	67-63-0	90 - 100

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first-aid measures**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.

**Ingestion** Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Flammable Liquid.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water. Foam. Dry chemical.

**Unsuitable Extinguishing Media**

No information available.

**Specific hazards arising from the chemical**

No information available.

**Sensitivity to static discharge** None.

**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 hazards** 2

**Flammability** 3

**Instability** 1

## 6. ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition. Ensure adequate ventilation.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

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

Soak up with inert absorbent material. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling**

Ensure adequate ventilation. Take precautionary measures against static discharges.

**Conditions for safe storage, including any incompatibilities**

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Incompatible Materials**

strong oxidizing agents, bases, amines, bleach

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>	2000 ppm

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

- Eye/face Protection** Safety glasses with side-shields.
- Skin and body protection** Wear protective gloves and protective clothing.
- Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	No information available
<b>Appearance</b>	Blue	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	82 °C / 180 °F	
<b>Flash Point</b>	12 °C / 53 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	12.7	
<b>Lower flammability limit</b>	2	
<b>Vapor Pressure</b>	No information available	
<b>Vapor Density</b>	>1	
<b>Specific Gravity</b>	0.79	
<b>Water Solubility</b>	soluble	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity of Product</b>	No information available	
<b>Dynamic viscosity</b>	No information available	

**Other information**

**Liquid Density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

May react with other chemicals. Do not mix with other chemicals except as directed on label.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None known.

**Conditions to Avoid**

Heat, flames and sparks.

**Incompatible Materials**

strong oxidizing agents, bases, amines, bleach

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Principal Routes of Exposure** Eye contact, Skin contact, Ingestion, Inhalation

**Information on likely routes of exposure**

**Eyes** Causes severe eye irritation.  
**Skin** Prolonged skin contact may cause skin irritation.  
**Ingestion** May be harmful if swallowed. Aspiration may cause pulmonary edema and pneumonitis.  
**Inhalation** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** Product is not identified as a sensitizer according to OSHA regulations.  
**Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	Not Listed	Group 3	Not Listed	Not Listed

**Legend:**

IARC (International Agency for Research on Cancer)  
 Group 3 - Not classifiable

**Reproductive Effects** Product is not identified as having reproductive effects according to OSHA regulations.  
**STOT - single exposure** Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.  
**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.  
**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity**

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol 67-63-0	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h

0% of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Isopropyl alcohol 67-63-0	1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50	EC50 = 35390 mg/L 5 min	EC50 >100 mg/l: 48 h <i>Daphnia magna</i>

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

**Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Method** Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

**DOT**

<b>UN-No</b>	1219
<b>Proper Shipping Name</b>	Isopropyl alcohol solution
<b>Hazard Class</b>	3
<b>Packing Group</b>	II

### 15. REGULATORY INFORMATION

**State Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X	X	X

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

### 16. OTHER INFORMATION

Preparation Date: 04-Apr-2007

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Revision Note: None

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of SDS**