

Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Phenolphthalein Indicator Solution, 1% in Isopropyl Alcohol	
NCL Catalog Number	P-18	
Product Description	Laboratory chemical	
Manufacturer	NCL of Wisconsin, Inc.	PO Box 8, Birnamwood, WI 54414
	Telephone: 1-800-648-7836	Fax: 715-449-2454
	Email: nclabs@nclabs.com	Emergency Contact: 1-800-424-9300 (Chemtrex)

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquids	Category 2
Eye Irritation	Category 2A
Specific Target Organ Toxicity	Single Exposure Category 3
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 2



Signal Word Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapors/spray.
P264	Wash exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.

P370+P378	In case of fire: Use dry sand, dry chemical, alcohol-resistant foam, or carbon dioxide to extinguish.
P403+ P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing to the Classification

Repeated exposure may cause skin dryness or cracking.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Not applicable
Common Name	Not applicable

Substances

Name	CAS #	Approximate %
Isopropyl Alcohol (2-Propanol)	67-63-0	99
Phenolphthalein	77-09-8	1

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures	Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
If Inhaled	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
In Case of Skin Contact	Remove all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor if you feel unwell.
In Case of Eye Contact	Rinse carefully with water for several minutes. Do not apply neutralizing agents. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.
If Swallowed	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call a POISON CENTER or doctor if you feel unwell. Ingestion of large quantities: immediately take to hospital. Doctor: gastric lavage.

Most Important Symptoms/Effects Acute and Delayed

After Inhalation	Exposure to high concentrations: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.
After Skin Contact	Dry skin.
After Eye Contact	Irritation of the eye tissue.
After Ingestion	Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. Body temperature fall. Slowing respiration.
Chronic Symptoms	On continuous or repeated exposure/contact: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.
Unsuitable Extinguishing Media	Do not use a heavy water stream.

Special Hazards Arising from the Chemical

Highly flammable. Gas/vapor flammable with air within explosion limits. May be ignited by sparks. Gas/vapor spreads at floor level. Violent to explosive reaction with many compounds. On exposure to light, can release harmful gases/vapors. Violent explosive reaction with strong oxidizers. Prolonged storage/in large quantities: may form peroxides.

Special Protective Actions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Keep containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

Collect spillage with inert absorbent material. Store away from other materials. Wash clothing/equipment after handling. Ensure compliance with local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Handling and Storage

Precautions for Safe Handling

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities

Keep in a tightly closed container, stored in a cool, dry, low ventilated area. Store away from sunlight, which can contribute to instability. Store away from; oxidizing agents, silver nitrate, sodium hypochlorite, direct sunlight, heat sources, and sources of ignition.

Storage Area

Ventilate at floor level. Fireproof storage room and provide an automatic sprinkler system. Provide tub for collecting spills. Provide tank with inert absorbent material. Comply with legal requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Isopropyl Alcohol (2-Propanol) (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Individual Protection Measures

Skin Protection

Avoid all unnecessary exposure.

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Eye Protection

Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Colorless
Odor	Alcohol odor.
Odor Threshold	Not determined
pH	Not determined
Melting Point/Freezing Point	-89°C
Initial Boiling Point and Boiling Range	82°C
Flash Point	18.0°C
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Upper/Lower Flammability/Explosive Limits	2.00%/12.00%
Vapor Pressure	33 at 20°C
Vapor Density	2.1
Relative Density	Not determined
Solubility	Soluble in water.
Partition Coefficient: n-octanol/water	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	CO and CO2 are formed. Volent and explosive reaction with strong oxidizers. Prolonged storage in large quantities may form peroxides.
Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions	No additional information available.
Conditions to Avoid	Extremely high or low temperatures. Heat and sunlight can contribute to instability. Keep away from open flames and sparks.
Incompatible Materials	May react violently with alkalis and acids.
Hazardous Decomposition Products	Fume, carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	Not classified
Isopropyl Alcohol (2-Propanol) (67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	73 mg/l/4h
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Causes serious eye irritation.
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	May cause cancer.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure)	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified

Potential Adverse Human Health Effects and Symptoms	No data available
Symptoms/Injuries After Inhalation	Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.
Symptoms/Injuries After Skin Contact	Dry skin.
Symptoms/Injuries After Eye Contact	Irritation of the eye tissue.
Symptoms/Injuries After Ingestion	Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. Lower body temperature. Slowing of respiration.
Chronic Symptoms	Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

SECTION 12: ECOLOGICAL INFORMATION

Ecology – Water Toxicity Ground water pollutant. Not harmful to fishes. Not harmful to invertebrates. Not harmful to algae. Inhibition of activated sludge.

Isopropyl Alcohol (2-Propanol) (67-63-0)	
LC50 fishes 1	4200 mg/l (96h; Rasbora heteromorpha)
EC50 Daphnia 1	>10000 mg/l (48h; Daphnia magna)
LC50 fish 2	9640 mg/l (96h; Pimephales promelas)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	>1000 mg/l (72h; Scenedesmus subspicatus)
Threshold limit algae 2	1800 mg/l (72h; Algae)

Persistence and Degradability Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No data on mobility of the substance available.

Biochemical Oxygen Demand (BOD)	1.19 g O ₂ /g Substance
Chemical Oxygen Demand (COD)	2.23 g O ₂ /g Substance
ThOD	2.4 g O ₂ /g Substance
BOD (% of ThOD)	0.49 % ThOD

Bioaccumulative Potential Log Pow: 0.05, Low potential for bioaccumulation (Log Kow <4)

Mobility in Soil Surface Tension: 0.0237 N/m

Other Adverse Effects Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations Dispose of contents/containers in accordance with federal, state, and local regulations. Do not discharge into surface water.

Ecology-Waste Materials Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION

UN Number	1993
UN Shipping Name	Flammable liquids, n.o.s.
Transport Hazard Class(es)	Not applicable
Packing Group	Not applicable
Environmental Hazards	Not applicable
Transport in Bulk	Not applicable
Special Precautions	Not applicable

SECTION 15: REGULATORY INFORMATION

Isopropyl Alcohol (2-Propanol) (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific Toxic Chemical Listings)
Phenolphthalein (77-09-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: OTHER INFORMATION

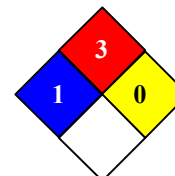
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NFPA Hazards

Health Hazard 1: Exposure would cause irritation with only minor residual injury.

Fire Hazard 3: Liquids and solids that can be ignited under almost all ambient temperature conditions.

Reactivity/Instability 0: Normally stable, even under fire exposure conditions, and is not reactive with water.



HMIS III Rating

Health 1: Irritation or minor reversible injury possible.

Flammability 3: Materials capable of ignition under almost all normal temperature conditions.

Physical Hazard 0: Materials that are normally stable.

Personal Protection H

P-18	
Health	1
Flammability	3
Physical Hazard	0
Personal Protection	H

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END OF SAFETY DATA SHEET