# **Chemical Safety Data Sheet**

#### Section 1 IDENTIFICATION

GHS Product identifier: / Isopropanol (Isopropyl alcohol)

Other means of identification: /

Recommended use of the chemical and restrictions on use:

Supplier's details: NEAR INTERNATIONAL TRADE CO., LIMITED

Emergency phone number: / 0546-7277736

#### Section 2 HAZARDS IDENTIFICATION

#### 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

**OSHA Hazards** 

Flammable liquid, Target Organ Effect, Irritant

**Target Organs** 

Gastrointestinal tract, Liver, Cardiovascular system., Kidney, Nerves.

GHS Label elements, including precautionary statements

Pictogram





Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H371 May cause damage to organs.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

# **HMIS Classification**

Health hazard: 2

**Chronic Health Hazard: \*** 

Flammability: 3 Physical hazards: 0

Reactivity: 1

# NFPA Rating

Health hazard: 2

Fire: 3



#### **NEAR INTERNATIONAL TRADE CO., LIMITED**

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Reactivity Hazard: 1

# **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: sec-Propyl alcohol

Isopropyl alcohol
Isopropanol

Formula: C3H8O

Molecular Weight: 60.1 g/mol

Chemical Name	CAS No.	Concentration%	
Isopropanol	67-63-0	99.9%	

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

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

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

# **5. FIRE-FIGHTING MEASURES**

# Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# **Further information**

Use water spray to cool unopened containers.

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#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Handle and store under inert gas. hygroscopic

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Control parameters:				
Source	Material	TWA mmp	STEL mg/m <sup>3</sup>	
China (Hong Kong) Occupational Exposure Limits	Isopropanol	400	1230	

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection



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Choose body protection according to the amount and concentration of the dangerous substance at the work place.

# **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

9. PH I SICAL AND CHEMICAL PROPERTIES				
Appearance (physical state, colour etc)	Colorless transparent liquid.			
Odour	/			
Odour Threshold	/			
рН	/			
Melting point/freezing point	-89.5℃.			
Initial boiling point and boiling range	82℃.			
Flash point	12℃.			
Evaporation rate	/			
Flammability (solid, gas)	/			
Upper/lower flammability or explosive limits	2.3-12.7%			
Vapour pressure	4.4kPa (20 °C)			
Vapour density	2.07(空气=1)			
Relative density	Soluble in water.			
Solubility(ies)	/			
Partition coefficient: n-octanol/water	/			
Auto-ignition temperature	/			
Decomposition temperature	/			
Viscosity				

# 10. STABILITY AND REACTIVIT

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

Vapours may form explosive mixture with air.

# Conditions to avoid

Heat, flames and sparks.

#### Materials to avoid

Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

LD50 Oral - rat - 5,045 mg/kg

Remarks: Behavioral:Altered sleep time (including change in righting reflex).



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Behavioral: Somnolence (general depressed activity).

LC50 Inhalation - rat - 8 h - 16000 ppm

LD50 Dermal - rabbit - 12,800 mg/kg

Skin corrosion/irritation

Skin - rabbit - Mild skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - Eye irritation - 24 h

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (GHS)

May cause damage to organs.

Specific target organ toxicity - repeated exposure (GHS)

no data available

# **Aspiration hazard**

no data available

#### **Potential health effects**

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**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

# Signs and Symptoms of Exposure

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.

# **Additional Information**

RTECS: NT8050000

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#### 12. ECOLOGICAL INFORMATION

**Toxicity** 

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h

and other aquatic invertebrates.

Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h

EC50 - No information available. - > 1,000.00 mg/l - 24 h

Persistence and degradability

no data available

**Bioaccumulative potential** 

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

UN number: 1219

UN proper shipping name: Isopropanol.

Transport hazard class(es): 3. Packing group, if applicable: II.

**Environmental hazards:** /

**Special precautions for user:** /

#### 15. REGULATORY INFORMATIO



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#### **OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

CAS-No. **Revision Date** 2-Propanol

> 67-63-0 1987-01-01

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

# **Massachusetts Right To Know Components**

2-Propanol CAS-No. **Revision Date** 

> 1987-01-01 67-63-0

#### Pennsylvania Right To Know Components

CAS-No. 2-Propanol Revision Date

> 67-63-0 1987-01-01

#### **New Jersey Right To Know Components**

2-Propanol CAS-No. **Revision Date** 

> 67-63-0 1987-01-01

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other ductive harm

# 16. OTHER INFORMATION

#### **Further information**

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- Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.
- Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.
- Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.