SAFETY DATA SHEET
%70 ISOPROPYL RUBBING ALCOHOL

SECTION 1: Identification of the substance/Preparation and of the company/Undertaking

1.1. Product identifier

Product name %70 ISOPROPYL RUBBING ALCOHOL

1.2. Details of the manufacturer of the safety data sheet

sedayuca@tsmbrands.com.tr

300-2 Route 17 South, Unit D, Lodi, NJ 07644
Web: www.tsmbrands.com

1.3. Emergency telephone number

1-800-424-9300

1.4. National poison Information centre

1-800-222-1222

SECTION 2: Hazards Identıfıcation

2.1. Classification of the substance or mixture

Flammable liquids	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3 Target Organs - Central nervous system (CNS)..

2.2. Label elements

Hazard Statements

Highly flammable liquid and vapor

Causes serious eye irritation

May couses drowsiness or dizziness

Signal Word

Danger

Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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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.

If ınhaled: 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 on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

In case of fire: Use CO2, dry chemical, or foam for extinction
Store in a well-ventilated place. Keep container tightly closed Store locked up
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) None identified

H336	May cause respiratory irritation.
P210	Keep away from heat, hot surfaces, open flames, sparks. – No smoking
P102	Keep out of the reach of children.
P233	Keep container tightly closed
P234	Store only in the original container.
P261	Avoid breathing mist
P303 + P361 + P353	If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	In case of contact with eyes: Rinse cautiously with water for several minutes. Plugged in and easy to do remove contact lenses, if. Continue rinsing.
P304+P340	If ınhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312	Call a POISON CENTER or doctor /physician if you feel unwell
P410+P403	Protect from sunlight. Store in a well ventilated area.
P370+P378	In case of fire : Use dry chemical powder , alcohol –resistant foam , carbon dioxide (CO2) to extinguish.

SECTION 3: Composition/ınformatıon on ıngredıents

Component	*CAS-No*	*Weight %*
Isopropyl alcohol	67-63-0	64.7
Water	7732-18-5	35.3

SECTION 4:First aid measures

General advice — If symptoms persist, call a physician.

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Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

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SECTION 5: Fıre fıghtıng measures

5.1. Suitable extinguishing media

CO 2, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	Water may be ineffective
Flash Point	12˚C
Method -	No information available
Autoignition Temperature	399 °C / 750.2 °F
Explosion Limits	
Upper	12.7 vol %
Lower	2.0 vol %
Sensitivityto Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

5.2. Special hazards arising from the chemical

Flammable properties: Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

5.3. Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO2).peroxides.

5.4. 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.

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SECTION 6: Accıdental release measures

6.1. Personel precautions, protective equipment and emergeny procedures

Use personal protective equipment as required. Ensure adequate ventilation. Remove all

Should not be released into the environment. See Section 12 for additional Ecological

Information.

Methods for containment and clean

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

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7.2. Specific end use(s)

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area.

SECTION 8: Exposure control/Personal protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 980 mg/m³ (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m³ TWA: 400 ppm TWA: 980 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³	TWA: 200 ppm STEL: 400 ppm

Engineering Measures — Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face Protection — Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection — Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection — Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms areexperienced.

Hygiene Measures — Handle in accordance with good industrial hygiene and safety practice.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical

Physical State	Liquid
Appearance	Liquid
Color	Colourless
Odor	Alcohol odour Stuffy odour Mild odour
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	-89 °C
Boiling Point/Range	82 °C / 179.6 °F
Flash Point	12 °C
Evaporation Rate	2.3 (Butyl Acetate = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	12.7 vol %
Lower	2.0 vol %
Vapor Pressure	44 hPa (20˚C)
Vapor Density	2.1 (Air = 1.0)
Specific Gravity	0,88g/ml
Solubility	Miscible with water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	399 °C / 750.2 °F
Decomposition Temperature	No information available
Viscosity	No informationavailable

SECTION 10: Stability and reactivity

10.1. Reactivity

None known, based on information available

10.2. Condition to avoid

Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.

10.3. Incompatible materials

Strong oxidizing agents, Strong acids, Metals Hazardous

10.4. Incompatible materials

Carbon monoxide (CO), Carbon dioxide (CO_2), peroxides Hazardous

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SECTION 11: Toxicological information

Acute Toxicity

Product Information

Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5840 mg/kg (Rat)	13900 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h
Water	- -	-	

Toxicologically Synergistic Products : No information available

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

Irritation: Severe eye irritant

Sensitization: No information available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

STOT - single exposure: Central nervous system (CNS)

STOT - repeated exposure: None known

Aspiration hazard: No information available

Symptoms / effects, both acute and delayed

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Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated

SECTION 12: Ecological information

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	LC50: = 9640 mg/L, 96h flow-through (Pimephales promelas) LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 11130 mg/L, 96h static (Pimephales promelas)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to itsvolatility.

Component	log Pow
Isopropyl alcohol	0.05

SECTION 13: Disposal consideration

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurateclassification

SECTION 14: Transport information

DOT

UN-No UN1219
Proper Shipping Name ISOPROPANOL
Hazard Class 3
Packing Group II

TDG

UN-No UN1219
Proper Shipping Name ISOPROPANOL
Hazard Class 3
Packing Group II

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IATA

UN-No	UN1219		
Proper Shipping Name	ISOPROPANOL		
		Hazard Class	3
Packing Group	II		

IMDG/IMO

UN-No	UN1219		
Proper Shipping Name	ISOPROPANOL		
		Hazard Class	3
Packing Group	II		

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SECTION 15: Regulatory information

United States of America Inventory

Component	*CAS-No*	*TSCA*	*TSCA Inventory notification - Active/Inactive*	*TSCA - EPA Regulatory Flags*
Isopropyl alcohol	*67-63-0*	*X*	*ACTIVE*	-
WATER	*7732-18-5*	*X*	*ACTIVE*	-

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	64.7	1.0

U.S. Federal Regulations

SECTION 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, informaiton 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 informaiton 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.