

Safety Data Sheet (SDS)

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To comply with European CLP Regulation 1272/2008, US 29CFR 1910.1200 OSHA's Hazard Communication Standard, and Australian NOHSC: 1008 [2004] and ADG Code 7.4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Isopropyl Alcohol Wipes
SYNONYMS: Isopropyl Alcohol 65-75%
PART NUMBERS: Included in: SMD1(wipes), SMD1NL(wipes), SMD2000(wipes), SMD6000(wipes)

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REVISION NUMBER: 3.2
REVISED BY: Chip Quik Product Safety

PRODUCT USE: Cleaning flux off circuit boards.

2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

Flammable Liquid 2
Serious Eye Damage/Eye Irritation 2

CHEMICAL NAME: 2-propanol
CHEMICAL FAMILY: Isopropyl Alcohol

ROUTES OF ENTRY: Inhalation, Ingestion, Skin/Eye Contact

TARGET ORGANS: NA

GHS/CLP:



Signal Word: Danger

GHS/CLP LABEL ELEMENTS:

Hazard statement(s)
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.

Precautionary statement(s)
P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P264 Wash hands thoroughly after handling.
P305/P351/P338/P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/Doctor.
P342/P311 IF EXPERIENCING RESPIRATORY SYMPTOMS: Call POISON CENTER/Doctor.
P370/P378 IN CASE OF FIRE: Use appropriate media for extinction.
P402/P404 Store in a dry place. Store in a closed container.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2 NOTES:

Chip Quik Inc. does not recommend, manufacture, market, or endorse any of its products for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classified in accordance with European CLP Regulation 1272/2008

Hazardous Ingredients	C.A.S. Number	Weight Percent	OSHA PEL mg/m ³	ACGIH TLV TWA mg/m ³	LD 50 Ingested g/Kg	LD 50 Inhaled g/m ³
Isopropyl Alcohol	67-63-0 200-661-7	65-75	NE	NE	NE	NE

Non-Hazardous Ingredients	C.A.S. Number	Weight Percent	OSHA PEL mg/m ³	ACGIH TLV TWA mg/m ³	LD 50 Ingested g/Kg	LD 50 Inhaled g/m ³
Water	7732-18-5 231-791-2	25-35	NE	NE	NE	NE

4. FIRST-AID MEASURES

EYES: Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

SKIN: Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

INGESTION: Call a physician or Poison Control Center immediately. Do not induce vomiting.

INHALATION: Remove to fresh air. If not breathing, seek immediate medical attention.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, foam

SPECIAL FIRE FIGHTING PROCEDURES: Do not use water. Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire. Avoid inhalation of material or combustion by-products.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly flammable liquid and vapor.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: If material spills or leaks collect and place it in a plastic or glass jar. Follow on-site personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Collect spillage.

SECTION 6 NOTES:

See Sections 2, 4, and 7 for additional information.

7. HANDLING AND STORAGE

HANDLING/STORAGE: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes. Avoid contact with eyes, skin, and clothing. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Wear appropriate personal protective equipment when working with or handling. Always wash hands thoroughly after handling this product. Dispose of following Federal, State/Provincial, and Local regulations.

OTHER PRECAUTIONS: Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

SECTION 7 NOTES:

For industrial use only.

Keep out of reach of children.

Not for internal consumption.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit Values:

Isopropyl Alcohol	67-63-0
Austria	200 ppm TWA [TMW] (short time value for large casting); 500 mg/m ³ TWA [TMW] (short time value for large casting) 800 ppm STEL [KZW] 4 X 15 min; 2000 mg/m ³ STEL [KZW] 4 X 15 min; 800 ppm STEL [KZW] (STEL for large casting valid till 12/31/2013) 4 X 30 min; 2000 mg/m ³ STEL [KZW] (STEL for large casting valid till 12/31/2013) 4 X 30 min
Belgium	200 ppm TWA; 500 mg/m ³ TWA 400 ppm STEL; 1000 mg/m ³ STEL
Denmark	200 ppm TWA; 490 mg/m ³ TWA
Finland	200 ppm TWA; 500 mg/m ³ TWA 250 ppm STEL; 620 mg/m ³ STEL
France	400 ppm STEL [VLCT]; 980 mg/m ³ STEL [VLCT]
Germany (TRGS)	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

	exposure factor 2; 500 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) exposure factor 2
Germany (DFG)	200 ppm TWA MAK; 500 mg/m ³ TWA MAK 400 ppm Peak; 1000 mg/m ³ Peak
Greece	400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL
Ireland	200 ppm TWA 400 ppm STEL Potential for cutaneous absorption
Portugal	200 ppm TWA [VLE-MP] 400 ppm STEL [VLE-CD]
Spain	200 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound); 500 mg/m ³ TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound) 400 ppm STEL [VLA-EC]; 1000 mg/m ³ STEL [VLA-EC]
Sweden	150 ppm LLV; 350 mg/m ³ LLV 250 ppm STV; 600 mg/m ³ STV
United Kingdom	400 ppm TWA; 999 mg/m ³ TWA 500 ppm STEL; 1250 mg/m ³ STEL
ACGIH	200 ppm TWA 400 ppm STEL
NIOSH	400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL 2000 ppm IDLH (10% LEL)
OSHA (US)	400 ppm TWA; 980 mg/m ³ TWA
Mexico	400 ppm TWA LMPE-PPT; 980 mg/m ³ TWA LMPE-PPT 500 ppm STEL [LMPE-CT]; 1225 mg/m ³ STEL [LMPE-CT]

Also see section 3.

ENGINEERING CONTROLS: Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

RESPIRATORY PROTECTION: Use with adequate ventilation.

EYE PROTECTION: Use with appropriate safety glasses (EU: EN 166-S).

SKIN PROTECTION: Not required.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in areas where solder products may be used. Always wash hands after handling soldering products and before applying or using cosmetics/food/drink/tobacco.

OTHER: Maintain eye wash stations in work areas. Avoid the use of contact lenses in high fume areas. Clean protective equipment regularly. Clean up spills immediately.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Non-woven cloth saturated with liquid in foil package
ODOR:	Alcohol
ODOR THRESHOLD:	N/A
pH as SUPPLIED:	N/A
MELTING POINT:	N/A
FREEZING POINT:	-89°C (literature value)
INITIAL BOILING POINT:	+82°C (literature value)
BOILING RANGE:	N/A
FLASH POINT:	12°C (estimated based on isopropyl alcohol)
EVAPORATION RATE:	N/A
FLAMMABILITY (solid):	N/A
UPPER/LOWER FLAMMABILITY:	NE
UPPER/LOWER EXPLOSIVE LIMITS:	12% (V) / 2% (V)
VAPOR PRESSURE (mmHg):	33 mmHg @ 20°C (literature value)
VAPOR DENSITY (AIR = 1):	2.1 (literature value)
SPECIFIC GRAVITY (WATER = 1):	0.7855 @ 20°C (literature value)
RELATIVE DENSITY:	NE
SOLUBILITY IN WATER:	100%
PARTITION COEFFICIENT (n-octanol/water):	0.05 (measured value)
AUTOIGNITION TEMPERATURE:	399°C (literature value)
DECOMPOSITION TEMPERATURE:	N/A
VISCOSITY:	N/A

10. STABILITY AND REACTIVITY

REACTIVITY:	Not known to occur
STABILITY:	Stable under normal conditions of use
CONDITIONS TO AVOID (STABILITY):	Avoid direct sunlight
INCOMPATIBILITY (MATERIAL TO AVOID):	Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents
HAZARDOUS DECOMPOSITION/BY-PRODUCTS:	Oxides of carbon
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Isopropyl alcohol (67-63-0)	
Oral LD50	Rat 5045 mg/kg
Dermal LD50	Rabbit 12800 mg/kg
Inhalation LC50	Rat 1600 ppm 4 h

Irritation/Corrosivity Data

Causes serious eye irritation.

Respiratory Sensitization

No data available

Dermal Sensitization

No data available

Germ Cell Mutagenicity

No data available

Component Carcinogenicity

Isopropyl alcohol	67-63-0
ACGIH	A4 - Not Classifiable as a Human Carcinogen
IARC	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Reproductive toxicity

No data available

Specific Target Organ Toxicity - Single Exposure

No information available

Specific Target Organ Toxicity - Repeated Exposure

No information available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

Avoid release to the environment.

Component Analysis - Aquatic Toxicity:

Isopropyl Alcohol	67-63-0
Fish	LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate	EC50 48 h Daphnia magna 13299 mg/L IUCLID

Persistence and degradability

N/A

Bioaccumulative potential

N/A

Mobility in soil

N/A

Results of PBT and vPvB assessment

EU - Interim Strategy for Management of PBT and vPvB Substances

No components of this material are listed.

Other adverse effects

No additional information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Scrap and waste should be recycled or stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN Number:

Not available

UN Proper Shipping Name:

Not available

Packaging Group:

Not applicable

Environmental Hazards:

None

TRANSPORT HAZARD CLASSES:

US DOT Hazardous Material Classification:

Non-Hazardous

Water Transportation:

Non-Hazardous

IATA Hazardous Material Classification:

Non-Hazardous

ADR Road Regulations

Not regulated

IMDG Sea Regulations

Not regulated

ADG Land Transportation

Not regulated

15. REGULATORY INFORMATION

All ingredients used to manufacture this product are listed on the EPA TSCA Inventory. Finished product is not listed on the EPA TSCA Inventory.

U.S. FEDERAL REGULATIONS:

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b).

Isopropyl Alcohol	67-63-0
SARA 313	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

STATE REGULATIONS:

Not regulated

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Isopropyl Alcohol	67-63-0
	1%

INTERNATIONAL REGULATIONS:

Not regulated

EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization

No components of this material are listed.

EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles

No components of this material are listed.

EU - Biocides (1451/2007) - Existing Active Substance

Isopropyl Alcohol	67-63-0
	Present

Germany Regulations

Germany Water Classification

Isopropyl alcohol (67-63-0) ID Number 135, hazard class 1 - low hazard to waters

Denmark Regulations

No components of this material are listed.

Chemical Safety Assessment

No chemical safety assessment has been carried out for the substance/mixture.

AUSTRALIAN REGULATIONS:

Australia inventory (AICS): This material is listed or exempted

16. OTHER INFORMATION

LEGEND:

ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods Code
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
BCF	Bioconcentration factor
C.A.S.	Chemical Abstract Service
CLP	Classification, Labeling and Packaging
DOT	Department of Transportation
EC	Effective Concentration
EPA	Environmental Protection Agency
GHS	Global Harmonized System
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal Concentration
LD	Lethal Dose
NA	Not available
NE	Not established
NIOSH	National Institute for Occupational Safety & Health
NOEC	No observed effective concentration
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
P _{ow}	Octanol water partition coefficient
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT	Specific target organ toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA:	Time Weighted Average
US DOT:	United States Department of Transportation

PREPARATION INFORMATION:

This update supersedes all previously released documents.

DISCLAIMER:

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to Chip Quik at the time of issue. No warranty, guarantee, or representation is made by Chip Quik nor does Chip Quik assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. The data on this Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

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