# **CHIPQUIK®**

## **Liquid Flux**

## Safety Data Sheet (SDS)

www.chipquik.com

To comply with European CLP Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878, 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: Chip Quik Liquid Flux Series: CQ7LF, CQ8LF, CQ9LF, CQ4300LF

SYNONYMS:

PART NUMBERS: CQ7LF, CQ7LF-0.5, CQ7LF-1.0, CQ7LF-16, CQ8LF, CQ8LF-0.5, CQ8LF-1.0, CQ8LF-16, CQ9LF, CQ9LF-0.5, CQ9LF-1.0,

> CQ9LF-16, CQ4300LF, CQ4300LF-0.5, CQ4300LF-1.0, CQ4300LF-16, CQ7LF-B-R, CQ8LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, CQ9LF-B-R, CQ9LF-B-R, CQ4300LF-B-R, CQ9LF-B-R, C R, IPC-TEST-FLUX-1, IPC-TEST-FLUX-1-15ML, IPC-TEST-FLUX-1-30ML, IPC-TEST-FLUX-2, IPC-TEST-FLUX-2-15ML,

IPC-TEST-FLUX-2-30ML, IPC-TEST-FLUX-1-16, IPC-TEST-FLUX-2-16, CQ7LF-32, CQ8LF-32, CQ9LF-32

**MANUFACTURER:** Chip Quik Inc.

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**REVISION DATE:** 2024/01/29

**REVISION NUMBER:** 

**REVISED BY:** Chip Quik Product Safety

PRODUCT USE: Bonding solder joints in production and repair of circuit boards.

#### 2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

Acute Toxicity (oral) H302 Acute Toxicity (dermal) 4 H312 Acute Toxicity (inhalation) 4 H332 Eye Irritant H319 Flammable Liquid H225 Skin Sensitization H317 1 Skin Irritant 2 H315

Specific Target Organ Toxicity (STOT) - Single Exposure (SE) Respiratory Tract Irritation 3 H335

**CHEMICAL NAME:** NA **CHEMICAL FAMILY:** Mixture **CHEMICAL FORMULA:** Proprietary

**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. H302 Harmful if swallowed.

H312 Harmful in contact with skin. H315 Causes skin irritation.

May cause an allergic skin reaction. H317 Causes serious eye irritation. H319

Harmful if inhaled. H332

May cause respiratory irritation. H335

H336 May cause drowsiness or dizziness.

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.

P233 Keep container tightly closed.

P260 Do not breathe dust/fume/gas/mist/vapor/spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P301/P330/P331/P310 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor.

P303/P361/P352/P333/P313 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with soap & water. Get medical advice/attention if

skin irritation or rash occurs or if you feel unwell.

P304/P340/312 IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if

vou feel unwell.

P305/P351/338/P310 F 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.

P308/P313 IF EXPOSED OR CONCERNED: Get medical advice/attention.

P342/P311 IF EXPERIENCING RESPIRATORY SYMPTOMS: Call POISON CENTER/Doctor.

P362 Take off contaminated clothing and wash it before reuse. P370/P378 IN CASE OF FIRE: Use appropriate media for extinction.

P391 Collect spillage.

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.

#### **POTENTIAL HEALTH EFFECTS:**

**EYE CONTACT:** May cause moderate irritation. Do not allow material to come in contact with eyes.

**SKIN CONTACT:** May cause moderate skin irritation.

**INHALATION:** Dizziness, blurred vision, headache, irritation of the mucous membranes, loss of appetite, and inability to concentrate. **INGESTION:** Harmful if swallowed. May cause irritation to the mouth, throat, and stomach. May cause abdominal discomfort, nausea,

vomiting, and/or diarrhea.

CHRONIC: Not established.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems. Occupational Asthma.

#### 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 (1)	C.A.S. Number	Weight Percent	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV TWA mg/m <sup>3</sup>	LD 50 Ingested g/Kg	LD 50 Inhaled g/m <sup>3</sup>
Isopropyl Alcohol	67-63-0 200-661-7	<95	NE	NE	NE	NE
Ethanol	64-17-5	<97	NE	NE	NE	NE
Methanol	67-56-1	8-15	NE	NE	NE	NE
Mineral Spirits	8032-32-4	3-9	NE	NE	NE	NE
Dimethylamine Hydrochloride	506-59-2	2-6	NE	NE	NE	NE
Carboxylic Acid	68937-69-9	1-6	NE	NE	NE	NE
Hydrobromic Acid	10035-10-6	1-5	NE	NE	NE	NE
Alkanolamine	141-43-5	1-5	NE	NE	NE	NE
CTAB	57-09-0	0.1-3.0	NE	NE	NE	NE

Non-Hazardous Ingredients	C.A.S. Number	Weight Percent	OSHA PEL	ACGIH TLV TWA	LD 50 Ingested	LD 50 Inhaled
			mg/m <sup>3</sup>	mg/m³	g/Kg	g/m³
Water	7732-18-5	25-35	NE	NE	NE	NE
	231-791-2					
Surfactants	NA	<4	NE	NE	NE	NE
Rheological Modifier	NA	<5	NE	NE	NE	NE

#### **SECTION 3 NOTES:**

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components, which comprise 1% of the mixture (0.1% carcinogenic), are listed. Percentages of individual components are not listed as this information is considered a trade secret.

(2) The identity of the specific chemical(s) is being withheld as a trade secret per 29 CFR 1910.1200. The hazardous properties of these ingredients are disclosed in this SDS.

#### 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 or administer oxygen. 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.

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:**

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/m3 TWA [TMW] (short time value for large casting)
	800 ppm STEL [KZW] 4 X 15 min; 2000 mg/m3 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/m3 STEL [KZW] (STEL for large casting valid till 12/31/2013) 4 X 30 min
Belgium	200 ppm TWA; 500 mg/m3 TWA
	400 ppm STEL; 1000 mg/m3 STEL
Denmark	200 ppm TWA; 490 mg/m3 TWA
Finland	200 ppm TWA; 500 mg/m3 TWA
	250 ppm STEL; 620 mg/m3 STEL
France	400 ppm STEL [VLCT]; 980 mg/m3 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/m3 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/m3 TWA MAK
	400 ppm Peak; 1000 mg/m3 Peak
Greece	400 ppm TWA; 980 mg/m3 TWA
	500 ppm STEL; 1225 mg/m3 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/m3 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/m3 STEL [VLA-EC]
Sweden	150 ppm LLV; 350 mg/m3 LLV
	250 ppm STV; 600 mg/m3 STV

United Kingdom	400 ppm TWA; 999 mg/m3 TWA
	500 ppm STEL; 1250 mg/m3 STEL
ACGIH	200 ppm TWA
	400 ppm STEL
NIOSH	400 ppm TWA; 980 mg/m3 TWA
	500 ppm STEL; 1225 mg/m3 STEL
	2000 ppm IDLH (10% LEL)
OSHA (US)	400 ppm TWA; 980 mg/m3 TWA
Mexico	400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE-PPT
	500 ppm STEL [LMPE-CT]; 1225 mg/m3 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: Clear, White, or Yellow to Dark Amber liquid

 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

#### 9.2 Other Information

#### 9.2.1 Information with regard to physical hazard classes

No additional information available.

9.2.2 Other safety characteristics

No additional information available.

#### **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

#### 11.2 Information on other hazards:

#### 11.2.1 Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 11.2.2 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

#### 12. ECOLOGICAL INFORMATION

Avoid release to the environment.

**Component Analysis - Aquatic Toxicity:** 

Component inaryor inquation	Tokiony
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.

**12.6 Endocrine Disrupting Properties:**The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

No known significant effects or critical hazards

#### 13. DISPOSAL CONSIDERATIONS

12.7 OTHER ADVERSE EFFECTS:

**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.

Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer package)

For Reference Only:

UN Number: 1219

UN Proper Shipping Name: Isopropanol, 3
Packaging Group: PG II
Environmental Hazards: None

#### TRANSPORT HAZARD CLASSES:

US DOT Hazardous Material Classification:

Not regulated - Quantity Limitations (≤5,000ml aircraft/rail, ≤60,000ml cargo aircraft)

Hazmat at all levels, not regulated below limited quantities / excepted quantities

Water Transportation: Not regulated

IATA Hazardous Material Classification: Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer

package)

ADR Road Regulations Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer

package)

IMDG Sea Regulations Not regulated - Excepted Quantities (EQ) Code: E2 (≤30ml per inner package, ≤500ml per outer

package)

ADG Land Transportation Not regulated

#### 15. REGULATORY INFORMATION

**United States Regulatory Information:** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

(TSCA) Inventory.

TSCA 12 (b) Export Notification: Not required.

Canada Regulatory Information:

CEPA DSLNDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances

List.

#### 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)

Ethanol	64-17-5
SARA 313	

#### **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
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
Pow 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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