

Safety Data Sheet (SDS)

www.chipquik.com

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: Chip Quik Flux Remover Series: FLUXRM, CQ6RM
SYNONYMS: Flux Cleaner, Solder Paste Remover, Solder Paste Cleaner
PART NUMBERS: FLUXRM.5, FLUXRM1, FLUXRM16, CQ6RM, CQ6RM-0.5, CQ6RM-1.0

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REVISION DATE: 2020/02/04
REVISION NUMBER: 3.3
REVISED BY: Chip Quik Product Safety

PRODUCT USE: Cleaning flux off circuit boards. This product is for industrial use only.

2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

Flammable Liquid 2
 Serious Eye Damage/Eye Irritation 2

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

Work Place Exposure Limits: 300 ppm
Eye Contact: Irritation may cause eye reddening.
Skin Contact: Prolonged contact results in skin drying.
Inhalation: May cause irritation to nose and throat.
Ingestion: Irritation to throat, mouth, esophagus. May cause nausea, vomiting, dizziness, diarrhea.

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

Ingredients	Weight %	TWA/TLV
Glycols	<5	100ppm OSHA 29CFR.1910
Aliphatic Glycol Ethers	>90	NE
N-Amino Ethanol	<5	8 TWA

4. FIRST AID MEASURES

Eye Contact:	Flush with large amount of water for 15 minutes. Contact physician.
Skin Contact:	Flush with large amount of water for 15 minutes. Contact physician. Remove contaminated clothing, wash before reuse.
Inhalation:	Move subject to fresh air. Give artificial respiration if not breathing, call physician.
Ingestion:	If conscious, drink 1 pint of luke warm water. Do NOT induce vomiting. Obtain medical attention promptly.

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

Precautions in Case of Release:	Wear suitable protective equipment. Collect small spills with absorbents, large spills flush with water, avoid discharge into sewers and waterways.
Waste Disposal Method:	Incinerate where permitted under Federal, State and Local regulations.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Ventilation:	Use local exhaust ventilation to maintain vapor below TWA's.
Respiratory Protection:	Self-contained breathing apparatus in high vapor concentrations.
Gloves & Glasses:	Chemically resistant gloves. Safety glasses.
Other Protective Equipment:	Eye bath, safety shower.

Avoid eye and skin contact. Keep away from children. Keep away from heat and flame. Use with adequate ventilation. Avoid inhalation of vapor or mist. Avoid contact with copper/copper alloys (such as brass). Use only Polyethylene valves and containers.

Storage Temperature:	Ambient
Storage Indoor:	Ambient
Storage Heated:	NA
Storage Outdoor:	Ambient
Refrigerated:	NA

9. PHYSICAL AND CHEMICAL PROPERTIES

Hazard Class (Hazard Rating Scale: 0=minimal, 1=slight, 2=moderate, 3=high, 4=extreme):

Health:	2
Reactivity:	0
Flammability:	2
Personal Protection	

Hazard Class: Combustible Liquid

Explosive Limits (volume %):	Upper: NA
	Lower: NA

Flash Point:	117°F (47°C) TCC
Auto Ignition Temperature:	Will not occur
Fire and Explosion Hazards:	During fire, oxides of Nitrogen may evolve.
Fire Fighting Procedures:	Self-contained breathing apparatus and full protective gear.

Boiling Point:	302°F (150°C)
Evaporation Rate (butyl acetate=1):	0.2
Vapor Pressure (in mmHg):	1.5 @ 20°C
Specific Gravity (water=1):	0.89
Appearance:	Clear colorless liquid
Odor:	Mild odor

Vapor Density (air=1): 3.8
% Volatile (by weight): 100
% Water Soluble: 100
Melting/Freezing Point: -50°C F.P.
Viscosity: NA

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility (material to avoid): Strong: Oxidizers, bases, acids. Ketones, aldehydes, anhydrides.
Conditions to Avoid: Temperatures above 250° C. Avoid heat, sparks and flame.

11. TOXICOLOGICAL INFORMATION

This product does not require reporting under the Comprehensive Environmental and Liability Act (CERCLA) of 1980. It is TSCA listed. It is not listed on Hazardous Air Pollutant (HAPS) list of the 1990 Clean Air Act Amendments and is not subject to Sara Title III regulations.

Eye Contact Causes serious eye irritation.
Skin Contact Causes skin irritation. May be harmful in contact with skin.
Inhalation Avoid breathing vapors or mists.
Ingestion May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aliphatic Glycol Ethers	2504 mg/kg (Rat)	3550 mg/kg (Rabbit)	
Aliphatic ether alcohol	5200 mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L (Rat) 4 h > 24 mg/L (Rat) 1 h
N-Amino Ethanol	1720 mg/kg (Rat)	1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Persistence/Degradability Not determined.

Bioaccumulation Not determined.

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.

US DOT Hazardous Material Classification:

UN Number: UN1993
UN Proper Shipping Name: Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)
Hazard Class 3
Packaging Group: III

IATA Hazardous Material Classification:

UN Number: UN1993
UN Proper Shipping Name: Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)
Hazard Class 3
Packaging Group: III

IMDG Sea Regulations:

UN Number: UN1993
UN Proper Shipping Name: Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)
Hazard Class 3
Packaging Group: III

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Aliphatic Glycol Ethers	Present	X		Present		Present	X	Present	X	X
Aliphatic Ether Alcohol	Present	X		Present		Present	X	Present	X	X
N-Amino Ethanol	Present	X		Present		Present	X	Present	X	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313 Not determined

16. OTHER INFORMATION

NFPA

Health Hazards 2
 Flammability 2
 Instability 0
 Special Hazards Not Determined

HMIS

Health Hazards 2
 Flammability 2
 Physical Hazards 0
 Personal Protection B

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.

