

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
SYNONYMS: Flux Cleaner, Solder Paste Remover, Solder Paste Cleaner
PART NUMBERS: FLUXRM.5, FLUXRM1, FLUXRM16, CQ6RM

MANUFACTURER: Chip Quik Inc.
ADDRESS: 931-3909 Witmer Rd., Niagara Falls, NY 14305 (USA)
 3rd Verd, 207 Regent Street, London W1B 3HH (UK and EU)
 5-1480 Sandhill Dr., Ancaster, ON L9G 4V5 (Canada)
 42A Crimea Street, C/O A03886, Parramatta, NSW, 2150 (Australia)

PHONE: (508) 477-2264
EMERGENCY PHONE: (800) 424-9300 (USA and Canada 24/7 CHEMTREC)
 +44 20 3868 7152 (UK and EU 24/7)
 +61 2 8607 7057 (Australia 24/7)

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REVISION NUMBER: 3.1
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

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

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. 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.

4. HEALTH HAZARDS, ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

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.

5. SPECIAL PROTECTION INFORMATION

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.

6. REACTIVITY DATA

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.

7. SPILL OR LEAK PROCEDURES AND WASTE DISPOSAL

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. HANDLING AND STORAGE PRECAUTIONS

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. HAZARD DATA

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.

10. PHYSICAL DATA

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

11. TOXICITY 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.

12. OTHER INFORMATION

Ventilation Protection: Refer to current edition of "Industrial Ventilation; A Manual of Recommended Practice", ACGIH, for the design, installation, use and maintenance of ventilation system.

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.