

Chemicals

TIP TINNER 4910

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Tip Tinner

SDS Code: 4910

Related Part # 4910-28G

Recommended Use and Restriction on Use

Use: Tinning of soldering tips

Uses Advised Against: Do not use brazing soldering methods such as high temperature

torch soldering/torch welding.

Details of Manufacturer or Importer

Manufacturer

MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

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FAX +1-800-340-0773

E-MAIL support@mgchemicals.com

WEB www.mgchemicals.com

MG Chemicals (Head Office)

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Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396

FAX +1-905-331-2682

E-MAIL info@mqchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents

USA or CANADA: Call CHEMTREC ☎: +1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC : +1-613-996-6666 or *666 on cellular phones

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Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Based on available data, this product does not meet the HCS 2012 or WHMIS 2015 classification criteria.

Label Elements

Signal Word	None Mandated
Pictograms	Hazard Statements
None mandated	None

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Argyria Hazard	Prolonged or repeated exposure by ingestion or inhalation can cause an irreversible blue-grey skin discoloration.	None	Not applicable

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
7440-31-5	tin	58%
7440-22-4	silver	1.8%
7440-50-8	copper	0.3%



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Section 4: First-Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF INHALED	P304 + P340
Immediate Symptoms	cough, irritation of the respiratory track
Response	Remove person to fresh air and keep comfortable for breathing.
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	redness, mild irritation
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF ON SKIN	P302 + P352
Immediate Symptoms	mild irritation
Response	Wash with plenty of water.
IF SWALLOWED	P301 + P330, P331
Immediate Symptoms	abdominal pain, nausea, vomiting
Response	Rinse mouth. Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguish media suitable for surrounding.
Specific Hazards	In a fire, this product can release metal oxide fumes.
	Do NOT use water on fires where molten metal is present.
Combustion Products	Produces tin oxides (SnO $_{x}$), silver oxides, nitrous oxides (NO $_{x}$), phosporus oxides, and copper oxides.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.



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Section 6: Accidental Release Measures

Personal Protection See personal protection recommendations in Section 8.

Precautions for Response

Avoid breathing the fumes. Remove or keep away all sources of

extreme heat.

Environmental Precautions

Avoid releasing to the environment.

Containment Methods Not applicable—not readily flowable

Cleaning Methods Collect waste in a sealable waste container. Reuse molten

material if it is not contaminated.

Disposal Methods Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention Keep out of reach of children.

Avoid breathing fumes.

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

Handling Wear protective gloves/clothing/eye protection.

Wash hands thoroughly after handling.

Avoid release to the environment.

Storage Not applicable.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
tin	ACGIH	2 mg/m ³	Not established
	U.S.A. OSHA PEL	2 mg/m ³	Not established
	Canada AB	2 mg/m ³	Not established
	Canada BC	2 mg/m ³	Not established
	Canada ON	2 mg/m ³	Not established
	Canada QC	2 mg/m ³	Not established

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
silver	ACGIH	0.1 mg/m ³	Not established
(metal dust, mist)	U.S.A. OSHA PEL	0.01 mg/m ³	Not established
(metal)	Canada AB	0.1 mg/m ³	Not established
(Ag and its compounds)	Canada BC	0.01 mg/m ³	0.03 mg/m^3
(metal, dust, fumes)	Canada ON	0.1 mg/m ³	Not established
	Canada QC	3 mg/m ³	Not established
copper	ACGIH	1.0 mg/m ³	Not established
(dust and mist)	U.S.A. OSHA PEL	1.0 mg/m ³	Not established
	Canada AB	1.0 mg/m ³	Not established
	Canada BC	1.0 mg/m ³	Not established
	Canada ON	1 mg/m ³	Not established
	Canada QC	1 mg/m ³	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database² and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

Engineering Controls

Ventilation

Keep airborne concentrations below exposure limits.

Manufacturer's Note: Because tip tinning temperatures are too low to generate metal vapors, fumes or dust, the risks of metal or metal compound generation are negligible. However, the use of a <u>local exhaust system</u> is highly recommended due to the possible of other thermally degradable contaminants on the tip.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety

goggles.

Recommendation: Ensure that glasses have side shields for

lateral protection.

Skin Protection For incidental contacts, use nitrile or other chemically resistant

gloves. Thermal resistant gloves should be worn instead if

contact with molten metal is expected.

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Respiratory Protection If exposed to fumes or dust above the exposure limit, a suitable wear respirator meeting local/regional/national quidelines.

> Generally, for emergencies and exposure above 0.01 mg/m³, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.

RECOMMENDATION: Consult your local safety supply store to ensure your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not applicable
Appearance	Silver grey	Upper Flammability Limit	Not applicable
Odor	Mild	Vapor Pressure @20°C	Not available
Odor Threshold	Not available	Vapor Density	Not applicable
pH	Not available	Specific Gravity @25 °C	7
Freezing/Melting	217-221 °C	Solubility in	Negligible
Point	[423-430 °F]	Water	
Boiling Point	Not	Partition	Not
	available	Coefficient	available
Flash Point	Not	Auto-ignition	Not
	applicable	Temperature	available
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Not	Viscosity	Not
(solid, gas)	applicable	@25 °C	applicable



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Section 10: Stability and Reactivity

Reactivity Not available

Chemical Chemically stable at normal temperatures and pressures

Stability

Conditions to

Avoid

Extreme temperatures above 450 °C, such as those due to welding

Incompatibilities Oxidizing agents, strong acids

Polymerization Will not occur

Decomposition Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Routes of Exposure

Inhalation, Ingestion, and Eye Contact

Symptoms Summary

Eyes May cause redness and mild irritation.

Skin May cause mild irritation.

Inhalation May cause nose, throat and lung irritation.

Overexposure to dust or metal fumes may lead to pneumoconiosis (or

Stannosis), anemia, and central nervous system effects.

Ingestion May cause abdominal pain, nausea, and vomiting (See chronic effects).

Chronic Prolonged or repeated exposure to silver or silver compounds by

ingestion or inhalation can cause an irreversible blue-grey skin

discoloration.

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
tin	>2 000 mg/kg	>2 000 mg/kg	4.75 mg/m³
	Rat	Rabbit	Rat 4 h
silver	>2 000 mg/kg	>2 000 mg/kg	>5.16 mg/L
	Rat	Rabbit	Rat 4 h
copper	>5 000 mg/kg	Not	>5.11 mg/L
	Mouse	available	Rat 4 h

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

Other Toxicological Effects

Other Toxicological Effec	,,,,
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus	Based on available data.

Teratogenicity (risk of fetus	Based on available data,
malformation)	the classification criteria are not met.

Based on available data,
the classification criteria are not met.

STOT-repeated exposure	Based on available data,
	the classification criteria are not met.

Aspiration hazardNot applicable. This product doesn't contain any Cat 1 ingredients and has a viscosity >20 mm²/s.



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Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources.

Based on transformation/dissolution data published by ECHA registrants, the classification threshold is not met for massive silver and copper.

Based on available data for tin, the GHS aqueus toxicity classification criteria are not met.

Acute Ecotoxicity

Non hazardous

Chronic Ecotoxicity

Non hazardous

Biodegradability

Not available

Bioaccumulation

Not available

Other Effects

Not available

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.



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Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Non Regulated

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Non Regulated

Sea

Refer to IMDG regulations.

Non Regulated

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

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USA

Other Classifications

HMIS® RATING

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains copper (CAS# 7440-50-8; reportable quantity = 5 000 lb) and silver (CAS# 7440-22-4; reportable quantity = 1 000 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product does not contain any of the listed substances.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is subject to the WEEE regulation.



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Section 16: Other Information

SDS Prepared by Michel Hachey
Date of Review 16 May 2016
Supersedes 01 June 2015

Reason for Changes: Correction of composition.

Reference

- 1) ACGIH 2013 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2013).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

LIONS
American Conference of Governmental Industrial Hygienists (USA)
Half maximal effective concentration
Half maximal effective loading
International Agency for Research on Cancer
No observable effect loading ratio
National Toxicology Program
Globally Harmonized System of Classification of Labeling of Chemicals
Lethal Concentration 50%
Lowest published lethal concentration
Lethal Dose 50%
Occupational Exposure Limit
Permissible Exposure Limit
Safety Data Sheet
Short-Term Exposure Limit
Lowest published toxic concentration
Time Weighted Average
Volatile Organic Content

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Technical Queries Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and FAQs

are located at www.mgchemicals.com.

Email: support@mgchemicals.com

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