

METALURE CHROME Blue

Version Revision Date: SDS Number: Date of last issue: 08/19/2021 1.2 04/12/2022 102000031322 Date of first issue: 01/15/2020

SECTION 1. IDENTIFICATION

Product name METALURE CHROME Blue

Product code 024502QR0

Manufacturer or supplier's details

Company name of supplier **ECKART America Corporation**

Address 830 East Erie Street

Painesville OH 44077

Telephone 866-458-7837

(440) 954-7600

Telefax (440) 354-6224

e-mail adresse info.eckart.america.oh@altana.com

Emergency telephone **CHEMTREC**: 800-424-9300

CHEMTREC: 1-703-527-3387 (International)

NCEC:

(contract no. ECKART29003-NCEC) US: +1 866 928 0789 (Toll free) Canada: +1 800 579 7421 (Toll Free)

Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Eye irritation Category 2A

- single exposure

Specific target organ toxicity : Category 3 (Central nervous system)

GHS label elements

Hazard pictograms





Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.



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Precautionary Statements :	Prevention:				
	P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.			
	P233	Keep container tightly closed.			
	P240	Ground/bond container and receiving equipment.			
	P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.			
	P242	Use only non-sparking tools.			
	P243	Take precautionary measures against static discharge.			
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.			
	P264	Wash skin thoroughly after handling.			
	P271	Use only outdoors or in a well-ventilated area.			
	P280	Wear protective gloves/ eye protection/ face protection.			
	Response:				
	P303 + P361 + F	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.			
	P304 + P340 + F	P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.			
	P305 + P351 + F	· · · · · · · · · · · · · · · · · · ·			
	P337 + P313	If eye irritation persists: Get medical advice/attention.			
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.			
	Storage:				
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.			
	P403 + P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.			

Hazardous ingredients which must be listed on the label: n-butyl acetate Acetic acid ethyl ester

waste disposal plant.



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2-Propanone

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
n-butyl acetate	123-86-4	>= 30 - < 50
Acetic acid ethyl ester	141-78-6	>= 20 - < 30
Copper, [29H,31H-phthalocyaninato(2-)-	147-14-8	>= 5 - < 10
.kappa.N29,.kappa.N30,.kappa.N31,.kappa.		
N32]-, (SP-4-1)-		
Aluminum	7429-90-5	>= 1 - < 5
2-Propanone	67-64-1	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms

Causes serious eye irritation.

and effects, both acute and

May cause drowsiness or dizziness.

delayed

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical



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Unsuitable extinguishing

media

Specific hazards during fire

fighting

High volume water jet

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Use only explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.



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Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on storage stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
n-butyl acetate	123-86-4	TWA	150 ppm	ACGIH
		STEL	200 ppm	ACGIH
		ST	200 ppm 950 mg/m3	NIOSH REL
		TWA	150 ppm 710 mg/m3	NIOSH REL
		TWA	150 ppm 710 mg/m3	OSHA Z-1
		TWA	150 ppm 710 mg/m3	OSHA P0
		STEL	200 ppm 950 mg/m3	OSHA P0
Copper, [29H,31H-phthalocyaninato(2-)kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (SP-4-1)-	147-14-8	TWA (dust and mists)	1 mg/m3 (Copper)	NIOSH REL
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3



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TWA (Respirable)	5 mg/m3	NIOSH REL
TWA (total dust)	15 mg/m3	OSHA Z-3
TWA (total)	10 mg/m3	NIOSH REL
TWA (respirable fraction)	5 mg/m3	OSHA Z-3
TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
TWA (Respirable particulate matter)	1 mg/m3	ACGIH
TWA	5 mg/m3 (Aluminum)	NIOSH REL
TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
 TWA (Fumes)	5 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an



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approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid Color : blue

Odor : characteristic
Odor Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : No data available

Boiling point/boiling range : 76 °C

Flash point : -4 °C

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit / Upper : No data available

flammability limit

Lower explosion limit / Lower

flammability limit

Vapor pressure : No data available Relative density : No data available

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : No data available Decomposition temperature : No data available Viscosity : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous : No decomposition if stored and applied as directed.

No data available

reactions Vapors may form explosive mixture with air.



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Conditions to avoid : Heat, flames and sparks.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

2-Propanone:

Acute oral toxicity : LD50 (Rabbit): 4,700 - 5,800 mg/kg

(Mouse): 3,000 mg/kg

(Rat): 9,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

2-Propanone:

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

2-Propanone:

Remarks: Severe eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Acetic acid ethyl ester:

Toxicity to daphnia and other :

(Daphnia): 717 mg/l

aquatic invertebrates

2-Propanone:

Toxicity to daphnia and other :

(Daphnia magna (Water flea)): 21,600 mg/l

aquatic invertebrates

Persistence and degradability

No data available



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Bioaccumulative potential

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Empty remaining contents. Contaminated packaging

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

UN/ID/NA number UN 1210 Proper shipping name Printing ink

Class 3 Packing group

Labels FLAMMABLE LIQUID

ERG Code 129 Marine pollutant no

International Regulations

IATA-DGR

UN 1210 UN/ID No. Proper shipping name Printing ink

Class 3 Packing group Ш

Labels Flammable Liquids 364

Packing instruction (cargo

aircraft)

Packing instruction 353

(passenger aircraft)

IMDG-Code

UN number : UN 1210



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Proper shipping name : PRINTING INK

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No. Component	
		(lbs)
n-butyl acetate	123-86-4	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Aluminum 7429-90-5 >= 1 - < 5 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

n-butyl acetate 123-86-4 %



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Acetic acid ethyl ester 141-78-6 %

2-Propanone 67-64-1 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table

116.4A:

n-butyl acetate 123-86-4 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

n-butyl acetate 123-86-4 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Copper, [29H,31H- 147-14-8 7 %

phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,(SP-4-1)-

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

n-butyl acetate 123-86-4
Acetic acid ethyl ester 141-78-6
Aluminum 7429-90-5

2-Propanone 67-64-1

Pennsylvania Right To Know

n-butyl acetate 123-86-4

Acetic acid ethyl ester 141-78-6

Cellulose, acetate butanoate 9004-36-8

Copper, [29H,31H-phthalocyaninato(2-)-

.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (SP-4-1)-

Cellulose, acetate propanoate 9004-39-1

Aluminum 7429-90-5

2-Propanone 67-64-1

California Prop. 65



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WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Acetic acid ethyl ester 141-78-6

Copper, [29H,31H-phthalocyaninato(2-)-

.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (SP-4-1)-

Aluminum 7429-90-5

2-Propanone 67-64-1

California Permissible Exposure Limits for Chemical Contaminants

Acetic acid ethyl ester 141-78-6

Aluminum 7429-90-5

2-Propanone 67-64-1

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants



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OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8