



N7000-3 Copper Clad Laminate

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2024 (HazCom 2024)
Issue date: Aug.11 2015 Revision date: Feb.1 2026

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : N7000-3 Copper Clad Laminate
Other means of identification : N7000-3 Fiberglass Copper Clad Laminate

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laminate for consumer and industrial electronics.
Restrictions on use : Consumer uses, Food and feed area, Drinking water, Skin contact

1.3. Supplier

AGC Multi Material America Inc.
1420 W 12th Place
Tempe, AZ 85281, USA
T +1-480-967-5600

AGC Multi Material Singapore Pte. Ltd.
4 Gul Crescent
Jurong, Singapore 629520
T +65-6861-7117

AGC Multi Material Europe SASU
25 Rue du Lyonnais
69800 Saint-Priest, France
T +33-6-15-75-21-53

1.4. Emergency telephone number

Emergency number :
AGC Multi Material America Inc. : +1-480-967-5600 (9am - 5pm MST) M - F
AGC Multi Material Singapore Pte. Ltd. : +65-6861-7117 (9am - 5pm SST) M - F
AGC Multi Material Europe SASU : +33-6-15-75-21-53 (9am - 5pm CET) M - F

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)
Copper	CAS-No.: 7440-50-8	30 – 70
Glass, oxide, chemicals	CAS-No.: 65997-17-3	15 – 35
butanone, ethyl methyl ketone	CAS-No.: 78-93-3	< 0.1

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Name	Product identifier	Conc. (% w/w)
γ -butyrolactone	CAS-No.: 96-48-0	< 0.1
2-methoxy-1-methylethyl acetate	CAS-No.: 108-65-6	< 0.1
Phenothiazine	CAS-No.: 92-84-2	< 0.1

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Adapt extinguishing media to the environment for surrounding fires.
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5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Australia

Copper (7440-50-8)	
Australia - Occupational Exposure Limits	
Local name	Copper
OES TWA	0.2 mg/m ³ fume 1 mg/m ³ dusts & mists (as Cu)
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)

Canada

Glass, oxide, chemicals (65997-17-3)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Synthetic Vitreous Fibres: Glass Fibres Continuous filament
OEL TWA	1 fibers/cm ³ 5 mg/m ³ Total

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Glass, oxide, chemicals (65997-17-3)	
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
Canada (Quebec) - Occupational Exposure Limits	
Local name	Fibres-artificial vitreous mineral fibres - Fibrous glass, continuous filament
VEMP (OEL TWAEV)	1 fibers/cm ³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Synthetic Vitreous Fibres - Continuous filament glass fibres
OEL TWA	1 fibers/cm ³ 5 mg/m ³ Inhalable
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
Canada (Ontario) - Occupational Exposure Limits	
Local name	Continuous filament glass fibres (Synthetic Vitreous Fibres (Man Made Mineral Fibres))
OEL TWAEV	5 mg/m ³ (I - Inhalable fraction) 1 fiber/mL (F - Respirable fibres)
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m ³ (I - Inhalable particulate matter)

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	1 fibers/cm ³ (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
USA - ACGIH - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

Copper (7440-50-8)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Copper
OEL TWA	0.2 mg/m ³ Fume 1 mg/m ³ Dusts/mists, as Cu
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Copper
VEMP (OEL TWA EV)	0.2 mg/m ³ Fume (as Cu) 1 mg/m ³ Dusts & mists (as Co)
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Copper, as Cu
OEL TWA	1 mg/m ³ Dusts and mists 0.2 mg/m ³ Fume
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Copper Fume as Cu
OEL TWA	0.2 mg/m ³
Notations and remarks	Irr; GI; metal fume fever
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Copper, as Cu

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OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m ³ Fume 1 mg/m ³ Dusts and mists
OEL STEL	0.6 mg/m ³ Fume 3 mg/m ³ Dusts and mists
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m ³ Fume 1 mg/m ³ Dusts and mists
OEL STEL	0.6 mg/m ³ Fume 3 mg/m ³ Dusts and mists
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Copper - Fume
OEL TWAEV	0.2 mg/m ³
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m ³ fume 1 mg/m ³ dusts and mists
OEL STEL	0.6 mg/m ³ fume 3 mg/m ³ dusts and mists

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Copper (7440-50-8)	
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

China & Hong Kong

Copper (7440-50-8)	
China - Occupational Exposure Limits	
Local name	铜 (按Cu计) # Copper, as Cu
OEL PC-TWA	1 mg/m ³ 尘# dust 0.2 mg/m ³ 烟# fume
Regulatory reference	GBZ 2.1-2019

European Union

Glass, oxide, chemicals (65997-17-3)	
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Refractory ceramic fibres: Glass, oxide, chemicals
BOEL TWA	0.3 fibers/mL
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
USA - ACGIH - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

Copper (7440-50-8)	
Austria - Occupational Exposure Limits	
Local name	Kupfer und seine Verbindungen
MAK (OEL TWA)	1 mg/m ³ (als Cu berechnet, E) 0.1 mg/m ³ (als Rauch, als Cu berechnet, A)
MAK (OEL STEL)	4 mg/m ³ (als Cu berechnet, E, 4x 15(Miw) min) 0.4 mg/m ³ (als Rauch, als Cu berechnet, A, 4x 15(Miw) min)
Regulatory reference	BGBl. II Nr. 156/2021
Belgium - Occupational Exposure Limits	
Local name	Cuivre (en Cu) # Koper (als Cu)
OEL TWA	0.2 mg/m ³ (fumées) # (rook) 1 mg/m ³ (poussières et brouillards de) # (stof en nevel)
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

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Copper (7440-50-8)	
Bulgaria - Occupational Exposure Limits	
Local name	Мед
OEL TWA	0.1 mg/m ³ (метални пари (като мед)) 1 mg/m ³ (оксиди и неорганични съединения (като мед))
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)
Croatia - Occupational Exposure Limits	
Local name	Bakar
GVI (OEL TWA)	0.2 mg/m ³ dim (kao Cu) 1 mg/m ³ prašina (kao Cu)
KGVI (OEL STEL)	2 mg/m ³ prašina (kao Cu)
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граниčnim vrijednostima izloženosti i biološkim граниčnim vrijednostima (NN 148/2023)
Czech Republic - Occupational Exposure Limits	
Local name	Měď
PEL (OEL TWA)	1 mg/m ³ (prach) (V - vdechovatelná frakce aerosolu) 0.1 mg/m ³ (dýmy) (R - respirabilní frakce aerosolu)
NPK-P (OEL C)	2 mg/m ³ (prach) (V - vdechovatelná frakce aerosolu) 0.2 mg/m ³ (dýmy) (R - respirabilní frakce aerosolu)
Remark	V - vdechovatelná frakce aerosolu, R - respirabilní frakce aerosolu.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Kobber
OEL TWA	1 mg/m ³ pulver og støv 0.1 mg/m ³ røg, beregnet som Cu
Regulatory reference	BEK nr 1619 af 19/12/2024
Estonia - Occupational Exposure Limits	
Local name	Vask ja anorgaanilised ühendid (arvutatud vasele)
OEL TWA	1 mg/m ³ kogu tolm 0.2 mg/m ³ peentolm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
Finland - Occupational Exposure Limits	
Local name	Kupari, metalli
HTP (OEL TWA)	0.02 mg/m ³ Cu, alveolijae
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystiete)
France - Occupational Exposure Limits	
Local name	Cuivre
VME (OEL TWA)	0.2 mg/m ³ (fumées) 1 mg/m ³ (poussières), en Cu

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Copper (7440-50-8)	
VLE (OEL C/STEL)	2 mg/m ³ (poussières), en Cu
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kupfer und seine Verbindungen
AGW (OEL TWA)	0.045 mg/m ³ (A) 0.2 mg/m ³ (E)
Peak exposure limitation factor	(A): 8(II);(E): 4(II)
Remark	AGS - Ausschuss für Gefahrstoffe; 10 - Der Arbeitsplatzgrenzwert bezieht sich auf den Elementgehalt des entsprechenden Metalls
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	RÉZ és vegyületei (Cu-re számítva)
AK (OEL TWA)	0.1 mg/m ³ 0.01 mg/m ³ füst, respirábilis frakció
CK (OEL STEL)	0.2 mg/m ³
Remark	R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Copper (as Cu)
OEL TWA	0.2 mg/m ³ Fume 1 mg/m ³ Dusts and mists
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Latvia - Occupational Exposure Limits	
Local name	Varš
OEL TWA	0.5 mg/m ³
OEL STEL	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Netherlands - Occupational Exposure Limits	
Local name	Koper
TGG-8u (OEL TWA)	0.1 mg/m ³ en anorganische koperverbindingen (inhaleerbaar)
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
Local name	Miedź i jej związki nieorganiczne
NDS (OEL TWA)	0.2 mg/m ³ w przeliczeniu na Cu

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Copper (7440-50-8)	
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Cobre
OEL TWA	0.2 mg/m ³ Fumos, expressos em Cu 1 mg/m ³ Poeiras e névoas, expressos em Cu
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Cupru
OEL TWA	0.5 mg/m ³ (Pulberi)
OEL STEL	0.2 mg/m ³ (Fumuri) 1.5 mg/m ³ (Pulberi)
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 179/2024)
Slovakia - Occupational Exposure Limits	
Local name	Meď a jej anorganické zlúčeniny (ako Cu)
NPHV (OEL TWA)	1 mg/m ³ inhalovateľná frakcia 0.2 mg/m ³ respirabilná frakcia a dymy
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Cobre
VLA-ED (OEL TWA)	0.01 mg/m ³ Fracción respirable
Remark	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
Sweden - Occupational Exposure Limits	
Local name	Koppar och oorg. föreningar
NGV (OEL TWA)	0.01 mg/m ³ (respirabel fraktion som Cu)
Remark	25 (Med inhalerbar och respirabel fraktion menas de dammfraktioner som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar (utgåva 1, 1993). Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i en totaldammprovtagare)
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
United Kingdom - Occupational Exposure Limits	
Local name	Copper
WEL TWA (OEL TWA)	0.2 mg/m ³ fume (as Cu) 1 mg/m ³ and compounds, dusts and mists (as Cu)
WEL STEL (OEL STEL)	2 mg/m ³ and compounds, dusts and mists (as Cu)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Cuivre et ses composés inorganiques / Kupfer und seine anorganischen Verbindungen

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Copper (7440-50-8)	
MAK (OEL TWA)	0.1 mg/m ³ (i) / (e)
KZGW (OEL STEL)	0.2 mg/m ³ (i) / (e)
Critical toxicity	Poumons, Fimétal / Lunge, Metallrauch
Notation	SS _c / SS _c
Remark	NIOSH. Exprimé en Cu / NIOSH. Als Cu berechnet
Regulatory reference	www.suva.ch, 01.01.2025
USA - ACGIH - Occupational Exposure Limits	
Local name	Copper, as Cu
ACGIH OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025

Japan

Glass, oxide, chemicals (65997-17-3)	
Japan - Occupational Exposure Limits (JSOH)	
Local name	ガラス # glass, oxide, chemicals
JSOH OEL	0.01 mg/m ³ Ag として 0.05 mg/m ³ Cd として 0.05 mg/m ³ Co として 0.5 mg/m ³ Cr として 0.02 mg/m ³ 吸入性粉塵、Mn として、有機マンガンを除く 0.1 mg/m ³ 総粉塵、Mn として、有機マンガンを除く 0.03 mg/m ³ Pb として、アルキル鉛化合物を除く 0.1 mg/m ³ Sb として、スチビンを除く 0.1 mg/m ³ Se として、セレン化水素、六フッ素化セレンを除く
Regulatory reference	JCDB の調査による

Korea

Copper (7440-50-8)	
Korea - Occupational Exposure Limits	
Local name	구리 # Copper
ISHA OEL TWA	1 mg/m ³ (분진 및 미스트) # (Dust & mist, as Cu) 0.1 mg/m ³ (흠) # (Fume)
ISHA OEL STEL	2 mg/m ³ (분진 및 미스트) # (Dust & mist, as Cu)
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48

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Singapore

Copper (7440-50-8)	
Singapore - Occupational Exposure Limits	
Local name	Copper
PEL (OEL TWA)	0.2 mg/m ³ Fume 1 mg/m ³ Dusts and mists, as Cu
Regulatory reference	WSH Regulations 2014

Taiwan

Copper (7440-50-8)	
Taiwan - Occupational Exposure Limits	
Local name	銅# Copper
OEL TWA	0.2 mg/m ³ 熏煙# fume 1 mg/m ³ 粉塵和霧滴 (以銅計) # dusts and mists (as Cu)
Regulatory reference	勞工作業場所容許暴露標準 (2018.03.14 修正) # Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (2018.03.14 Modified)

United States

N7000-3 Copper Clad Laminate	
No additional information available	
Glass, oxide, chemicals (65997-17-3)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m ³ (I - Inhalable particulate matter) 1 fibers/cm ³ (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021
Copper (7440-50-8)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
Local name	Copper, as Cu
ACGIH OEL TWA	0.2 mg/m ³ (Fume) 1 mg/m ³ (Dusts and mists)
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Copper

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Copper (7440-50-8)	
OSHA PEL TWA	0.1 mg/m ³ (Fume (as Cu)) 1 mg/m ³ (Dusts and mists (as Cu))
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Yellow solid. sheet.
Color : Yellow
Odor : No data available
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : Not applicable
Boiling point : No data available
Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available
Flammability : Non flammable.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available
Relative density : 1.2 – 2
Solubility : Negligible.
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : > 392 °F (> 200°C)

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Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not classified.
Oxidizing properties	: Not oxidising.

9.2. Other information

VOC content	: < 0.3 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Decomposes on exposure to temperature rise.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Amines.

10.6. Hazardous decomposition products

Acrid fumes of acids. Aliphatic hydrocarbons. aromatic hydrocarbons. Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Glass, oxide, chemicals (65997-17-3)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
Copper (7440-50-8)	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 5.11 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

butanone, ethyl methyl ketone (78-93-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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Copper (7440-50-8)

CERCLA RQ	5000 lb
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15.2. International regulations

Australia

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS introductions Inventory) status: All the chemicals contained in this product are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information is available.

Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information is available.

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Canada

butanone; ethyl methyl ketone (78-93-3)
Listed on the Canadian DSL (Domestic Substances List)
γ-butyrolactone (96-48-0)
Listed on the Canadian DSL (Domestic Substances List)
2-methoxy-1-methylethyl acetate (108-65-6)
Listed on the Canadian DSL (Domestic Substances List)
Phenothiazine (92-84-2)
Listed on the Canadian DSL (Domestic Substances List)
Glass, oxide, chemicals (65997-17-3)
Listed on the Canadian DSL (Domestic Substances List)
Copper (7440-50-8)
Listed on the Canadian DSL (Domestic Substances List)

China & Hong Kong

Regulation on the Safety Management of Hazardous Chemicals	Catalogue of Hazardous Chemicals (2015) 236, 2-Butanone
Rules for dangerous goods transport by railway	List of dangerous goods by railway (2009) 31173, 2-Butanone
Regulation on the Control of Precursor Chemicals	List of Precursor Chemicals 2-Butanone (CAS-No. 78-93-3)
New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)	
Inventory of Existing Chemical Substances in China (IECSC)	Contains listed substance(s) Glass, oxide, chemicals (CAS-No. 65997-17-3) Copper (CAS-No. 7440-50-8) 2-Butanone (CAS-No. 78-93-3) γ-Butyrolactone (CAS-No. 96-48-0) 2-methoxy-1-methylethyl acetate (CAS-No. 108-65-6) Phenothiazine (CAS-No. 92-84-2)
Law of the People's Republic of China on the Prevention and Control of Occupational Diseases	
Catalogue for Classification of Hazardous Factors of Occupational Diseases	Contains listed substance(s) Glass wool dust (CAS-No. 65997-17-3) Butanone (CAS-No. 78-93-3)
Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)	
Catalogue of Hazardous Chemicals (2015)	Contains Hazardous Chemical(s) Copper (CAS-No. 7440-50-8) 2-Butanone (CAS-No. 78-93-3) γ-butyrolactone (CAS-No. 96-48-0) 2-methoxy-1-methylethyl acetate (CAS-No. 108-65-6) Phenothiazine (CAS-No. 92-84-2)

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	Considered as Hazardous Chemical(s)
Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council)	
Catalogue of Precursor Chemicals	Contains listed substance(s) Methyl ethyl ketone (CAS-No. 78-93-3) γ-Butyrolactone (CAS-No. 96-48-0)
Other domestic regulatory lists	
Dangerous Goods List (GB 12268-2012)	Contains listed substance(s) ETHYL METHYL KETONE (METHYL ETHYL KETONE) (CAS-No. 78-93-3)

European Union

EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

VOC content : < 0.3 %

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Austria

Ordinance on Flammable Liquids (VbF) : Auto detect

France	
Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : Glass, oxide, chemicals is listed

SZW-lijst van mutagene stoffen : Glass, oxide, chemicals is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

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Switzerland

Storage class (LK)

: NG - Non-hazardous

Japan

Industrial Safety and Health Law	Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning, Art.1, Para.1, Item 4) Methyl ethyl ketone
	Working Environment Assessment Standard (Act, Art.65-2, Para.1) Acetone Methyl ethyl ketone
	【After amendment of April 2025】 Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.30 Appended Table No.2) Methyl ethyl ketone Phenothiazine
	【After amendment of April 2026】 Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.30 Appended Table No.2) Methyl ethyl ketone Phenothiazine
	Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 2, Appended Table No.9) Copper and its compounds Methyl ethyl ketone Phenothiazine
	【After amendment of April 2025】 Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 3, Appended Table No.9) Copper and its compounds
	【After amendment of April 2026】 Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 3, Appended Table No.9) Copper and its compounds
	Dangerous Substances, Flammable Substances (Enforcement Order, Art., Appended Table 1, Item 4) Methyl ethyl ketone
	Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2 Item 1 and 2, Appended Table 9) Copper and its compounds (Ordinance number: 379) (30 ~ 40%) Methyl ethyl ketone (Ordinance number: 570) (under 5%) Phenothiazine (Ordinance number: 473) (under 5%)
	【After amendment of April 2025】 Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.34-2 Appended Table No.2) Methyl ethyl ketone (under 5%) Phenothiazine (under 5%)
	【After amendment of April 2026】 Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.34-2 Appended Table No.2) Methyl ethyl ketone (under 5%) Phenothiazine (under 5%)
	【After amendment of April 2025】 Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 1 and 3, Appended Table 9)

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	Copper and its compounds (30 ~ 40%)
	<p>【After amendment of April 2026】</p> <p>Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 1 and 3, Appended Table 9)</p> <p>Copper and its compounds (30 ~ 40%)</p> <p>Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)</p> <p>Methyl ethyl ketone</p> <p>Chemical substances that cause skin damage, skin-absorbable harmful substances (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 5 based on July 4, 2023)</p> <p>Methyl ethyl ketone</p> <p>Phenothiazine</p> <p>Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 5 based on July 4, 2023)</p> <p>Copper</p> <p>Phenothiazine</p>
Law Relating to Prevention of Marine Pollution and Maritime Disasters	<p>Dangerous Goods (Enforcement Order, Art. Appended Table 1-4)</p> <p>Methyl ethyl ketone</p> <p>Harmful Liquid Substances (Group Y), (Enforcement Order, Art. Appended Table 1)</p> <p>gamma-Butyrolactone</p> <p>Harmful Liquid Substances (Group Z), (Enforcement Order, Art. Appended Table 1)</p> <p>Methyl ethyl ketone</p>
Water Pollution Prevention Law	<p>Designated Materials (Article 2, Paragraph 4 of the Law, Article 3-3 of the Enforcement Order)</p> <p>Copper and its compounds</p> <p>Living Environment Pollution Items (Act, Art.2, Enforcement Order, Art.3, Ministerial Ordinance to Provide for Effluent Standards, Art.1, Appended Table 2)</p> <p>Copper content</p>
Air Pollution Control Law	<p>Possible Hazardous Air Pollutants (Central Environment Council Report 9)</p> <p>Copper and its compounds</p>
Waterworks Law	<p>Hazardous substances (Act, Art. 4, Para 2), Standard for water quality (Ministerial Ordinance No.101of 2003,)</p> <p>Copper and its compounds</p>
Sewerage Law	<p>Substances for Water Quality Standard (Act, Art.12-2, Para.2, Enforcement Order Art.9-4)</p> <p>Copper and its compounds</p>
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	<p>Class 2 Designated Chemical Substances (Act, Art.2, Para. 3, Enforcement Order, Art.2, Appended Table 2)</p> <p>Phenothiazine (Maintenance number: 797) (5.0%)</p>

Korea

Occupational Safety and Health Act		
Threshold Limit Values Chemicals	Applicable	7440-50-8: Copper 92-84-2: Phenothiazine
Hazardous Substances Subject to Working Environment Measurement	Applicable	7440-50-8: Copper (Measurement Cycle: 6 months) (contains above 1%)
Hazardous Substances Subject to Workers Requiring Health Examination	Applicable	7440-50-8: Copper (Examination Cycle: 12 months) (contains above 1%)
Hazardous Substances Subject to Control	Applicable	7440-50-8: Copper and its compounds (contains above 1%)
Substance Subject to Submission of PSM	Applicable	108-65-6: 2-methoxy-1-methylethyl acetate (Flammable liquids) (Manufacture · Handling: 5,000kg (Storage: 200,000kg))

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Chemical Substances Control Act		
Toxic Substances	Applicable	7440-50-8: Copper (Exclude if particles size \geq 1mm) (Toxic-No.: 2025-1-1247 (contains above 1%))
Safety Control of Dangerous Substances Act		
Safety Control of Dangerous Substances Act	Applicable	96-48-0: γ -Butyrolactone (Class 4 Flammable liquid - category 5 Third class Petroleum Water-soluble (Designated quantity: 4,000 liter)) 108-65-6: Propylene glycol monomethyl ether acetate (Class 4 Flammable liquid - category 4 Second class Petroleum Water-insoluble (Designated quantity: 1,000 liter))
Wastes Control Act		
Hazardous Substances in Designated wastes	Applicable	7440-50-8: Copper and its compounds (Contained in an effluent; Threshold condition to verify (contains above 3mg/l))
Act on Registration and Evaluation of Chemicals (K-REACH)		
Korea Existing Chemicals Inventory (KECI)	Applicable	65997-17-3: Glass, oxide (KECI-No.: KE-17630) 7440-50-8: Copper (KECI-No.: KE-08896) 96-48-0: Dihydro-2(3H)-furanone; 4-Hydroxybutyric acid lactone, γ -Butyrolactone (KECI-No.: KE-10674) 108-65-6: Propylene glycol methyl ether acetate (KECI-No.: KE- 23315) 92-84-2: Dibenzo-1,4-thiazine (KECI-No.: KE-28250)

Singapore

Regulation		Component / Mixture
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations	Applicable	Copper; γ -butyrolactone; 2- methoxy-1-methylethyl acetate; Phenothiazine
Environmental Protection and Management (Air Impurities) Regulations	Air Impurities Emission Limits	Copper
Environmental Public Health (Quality of Piped Drinking Water) Regulations	Drinking Water Quality Standards - Chemical Parameters	Copper

Taiwan

Occupational Safety and Health Act	Applicable	Glass, oxide, chemicals; Copper
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste	Applicable	Glass, oxide, chemicals; Copper
Traffic Safety Rule	Applicable	Glass, oxide, chemicals; Copper

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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Component	State or local regulations
butanone, ethyl methyl ketone (78-93-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Phenothiazine (92-84-2)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Copper (7440-50-8)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

US-SDS according to the federal final rule of hazard communication revised on 2024 (HazCom 2024)

Issued date : August 11 2015

Revision date : February 1 2026

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.