SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) Version : N°1 (10/02/2025) GEB

SHERATON CUIVRE



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : SHERATON CUIVRE UFI : 75XW-S2PR-T607-VCC5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Active pickling paste (solder paste and flux remover)

1.3. Details of the supplier of the safety data sheet

Registered company name : GEB. Address : CS 62062.95972.ROISSY CDG CEDEX . France. Telephone : +33 1 48 17 99 99. Fax : +33 1 48 17 98 00. geb@geb.fr www.geb.fr

1.4. Emergency telephone number : +33 1 45 42 59 59. Association/Organisation : INRS.

Association/Organisation . INK

Other emergency numbers

N/A

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

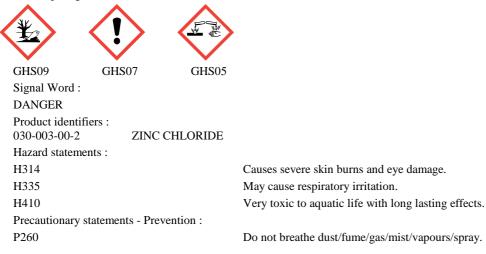
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
Precautionary statements - Response :	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements - Disposal :	
P501	Dispose of contents/container in accordance with local reglementation

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition	:	
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Composition :			
Identification	Classification (EC) 1272/2008	Note	%
CAS: 7440-31-5		[i]	50 <= x % < 100
EC: 231-141-8			
REACH: 01-2119486474-28-0033			
ETAIN			
INDEX: 030-003-00-2	GHS05, GHS07, GHS09	[i]	2.5 <= x % < 10
CAS: 7646-85-7	Dgr		
EC: 231-592-0	Acute Tox. 4, H302		
	Skin Corr. 1B, H314		
ZINC CHLORIDE	Aquatic Acute 1, H400		
	M Acute $= 1$		
	Aquatic Chronic 1, H410		
	M Chronic $= 1$		
CAS: 56-81-5		[i]	$2.5 \le x \% \le 10$
EC: 200-289-5		[-]	
GLYCEROL			
INDEX: 017-014-00-8	GHS07	[i]	2.5 <= x % < 10
CAS: 12125-02-9	Wng		
EC: 235-186-4	Acute Tox. 4, H302		
REACH: 01-2119489385-24	Eye Irrit. 2, H319		
AMMONIUM CHLORIDE			
CAS: 7440-50-8	GHS09	[i]	1 <= x % < 2.5
EC: 231-159-6	Wng		
REACH: 01-2119480154-42	Aquatic Acute 1, H400		
	MAcute = 100		
CUIVRE	Aquatic Chronic 1, H410		
	M Chronic = 10		
CAS: 169107-21-5	GHS07, GHS05		$1 \le x \% \le 2.5$
	Dgr		
ALCOHOLS, C9-11-BRANCHED,	Acute Tox. 4, H302		
ETHOXYLATED	Eye Dam. 1, H318		
	12.50 Duni. 1, 11510	1	1

Information on ingredients :

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar. Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7440-31-5	2 mg/m3				
7646-85-7	1 mg/m3	2 mg/m3			
56-81-5	10 mg/m3				
12125-02-9	10 mg/m3	20 mg/m3			
7440-50-8	0.2 mg/m3	-	-	-	-

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3:	Notes :	TMP No :
7646-85-7		1				
56-81-5		10				
12125-02-9		10				
7440-50-8		1		2		

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) Version : N°1 (10/02/2025) GEB

SHERATON CUIVRE

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7646-85-7	1 mg/m3	2 mg/m3			
56-81-5	10 mg/m3				
12125-02-9	10 mg/m3	20 mg/m3			
7440-50-8	0.2 mg/m3	-	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

CUIVRE (CAS: 7440-50-8) Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

ETAIN (CAS: 7440-31-5)

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Predicted no effect concentration (PNEC):

CUIVRE (CAS: 7440-50-8) Environmental compartment: PNEC :

Environmental compartment: PNEC :

Environmental compartment:

Workers. Dermal contact. Long term systemic effects. 137 mg/kg body weight/day

Dermal contact. Short term systemic effects. 273 mg/kg body weight/day

Inhalation. Short term systemic effects. 20 mg of substance/m3

Workers. Dermal contact. Short term systemic effects. 133.3 mg/kg body weight/day

Inhalation. Short term systemic effects. 11.75 mg of substance/m3

Consumers. Ingestion. Short term systemic effects. 80 mg/kg body weight/day

Dermal contact. Short term systemic effects. 80 mg/kg body weight/day

Inhalation. Short term systemic effects. 3.476 mg of substance/m3

Soil. 65 mg/kg

Fresh water. 7.8 μ g/l

Sea water.

PNEC :	5.2 µg/l
Environmental compartment:	Fresh water sediment.
PNEC :	87 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	676 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	230 µg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties :

N/A

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- B1 (Grey)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemica	l properties
Physical state Physical state :	Paste.
Colour Unspecified	
Odour Odour threshold :	Not stated.
Melting point Melting point/melting range :	Not relevant.
Freezing point Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling Boiling point/boiling range :	g range Not relevant.
Flammability Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit Explosive properties, lower explosivity limit (%)Not stated.
: Explosive properties, upper explosivity limit (%)Not stated.
· Flash point Flash point interval :	Not relevant.
Auto-ignition temperature Self-ignition temperature :	Not relevant.
Decomposition temperature Decomposition point/decomposition range :	Not relevant.
pH pH (aqueous solution) : pH :	Not stated. Not stated. Slightly acidic.
Kinematic viscosity Viscosity :	Not stated.
Solubility Water solubility : Fat solubility :	Dilutable. Not stated.
Partition coefficient n-octanol/water (log value Partition coefficient: n-octanol/water :) Not stated.
Vapour pressure Vapour pressure (50°C) :	Not relevant.
Density and/or relative density Density :	> 1
Relative vapour density Vapour density :	Not stated.
Particle characteristics The mixture does not contain nanoforms.	
9.2. Other information No data available.	

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Keep away from :

- bases

10.6. Hazardous decomposition products

No data available.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

11.1.1. Substances

Acute toxicity :

ETAIN (CAS: 7440-31-5)	
Oral route :	LD50 > 5000 mg/kg Species : Rat
Dermal route :	LD50 > 5000 mg/kg Species : Rat
Inhalation route (Dusts/mist) :	LC50 >= 4.75 mg/l Species : Rat

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

ETAIN (CAS: 7440-31-5) Crustacean toxicity :

CUIVRE (CAS: 7440-50-8) Fish toxicity : EC50 = 1.303 mg/l Species : Ceriodaphnia dubia Duration of exposure : 48 h

0.001 < LC50 <= 0.01 mg/lFactor M = 100

 $\begin{array}{l} 0.0001 < NOEC <= 0.001 \ mg/l \\ Factor \ M = 10 \end{array}$

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

ETAIN (CAS: 7440-31-5) Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

14.1. UN number or ID number

3077

14.2. UN proper shipping name

UN3077=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (cuivre, zinc chloride)

14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M7	III	9	90	5 kg	274 335 375	E1	3	-
							601			

Not subject to this regulation if $Q \le 51/5$ kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregation
								Handling	
	9	-	III	5 kg	F-A. S-F	274 335 966	E1	Category A	-
						967 969		SW23	

Not subject to this regulation if Q $\leq 51/5$ kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	956	400 kg	956	400 kg	A97 A158	E1
								A179 A197	
								A215	
	9	-	III	Y956	30 kg G	-	-	A97 A158	E1
								A179 A197	
								A215	

Not subject to this regulation if Q $\leq 51/5$ kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(cuivre)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/197. (ATP 21)

Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3).

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV: Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.