01016-9504

SAFETY DATA SHEET

Date of issue/Date of revision 19 February 2024 Version 22

Section 1. Identification		
Product name	: METALLIC COPPER	
Product code	: 110L	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer Emergency telephone number	 PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272 (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México) 	
Technical Phone Number		

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSH, (29 CFR 1910.1200). 	A Hazard Communic	cation Standard
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEAT Percentage of the mixture consisting of ingredient(s (oral), 89.3% (dermal), 64.6% (inhalation) 	,	0,
GHS label elements			
Hazard pictograms			
Signal word	: Danger		
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Section 2. Hazards identification

Hazard statements	 Flammable liquid and vapor. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	1	METALLIC COPPER

Ingredient name	%	CAS number
copper	≥20 - ≤50	7440-50-8
Distillates (petroleum), hydrotreated light	≥20 - ≤50	64742-47-8
Naphtha (petroleum), hydrotreated heavy	≥1.0 - ≤6.7	64742-48-9
Stoddard solvent	≥1.0 - ≤3.2	8052-41-3
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
calcium bis(2-ethylhexanoate)	<1.0	136-51-6
2-butanone oxime	<1.0	96-29-7
2-ethylhexanoic acid, zirconium salt	≤1.0	22464-99-9
cobalt bis(2-ethylhexanoate)	<1.0	136-52-7
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Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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Section 4. First aid measures

Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Fammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal contrainer. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe hand	ling
Protective measures	: Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Ingestion of product or cured coating may be harmful. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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Section 7. Handling and storage

Conditions for safe storage,	: Do not store below the following temperature: 5°C (41°F). Store in accordance with
including any	local regulations. Store in a segregated and approved area. Store in original container
incompatibilities	protected from direct sunlight in a dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate
	all ignition sources. Separate from oxidizing materials. Keep container tightly closed
	and sealed until ready for use. Containers that have been opened must be carefully
	resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
	Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits			
c opper	ACGIH TLV (United States, 1/2023).			
	[Copper Dusts and mists, as Cu]			
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dust			
	and mist			
	OSHA PEL (United States, 5/2018).			
	TWA: 1 mg/m ³ 8 hours. Form: Dusts and			
	Mists			
	TWA: 0.1 mg/m ³ 8 hours. Form: Fume			
	ACGIH TLV (United States, 1/2023).			
	[Copper Fume]			
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume			
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 1/2023).			
	[Kerosene as total hydrocarbon vapor]			
	Absorbed through skin.			
	TWA: 200 mg/m³, (as total hydrocarbon			
	vapor) 8 hours.			
Naphtha (petroleum), hydrotreated heavy	None			
Stoddard solvent	ACGIH TLV (United States, 1/2023).			
	TWA: 525 mg/m ³ 8 hours.			
	TWA: 100 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 2900 mg/m ³ 8 hours.			
	TWA: 500 ppm 8 hours.			
diiron trioxide	ACGIH TLV (United States, 1/2023).			
	TWA: 5 mg/m ³ 8 hours. Form: Respirable			
	fraction			
	OSHA PEL (United States, 5/2018).			
	TWA: 5 mg/m ³ 8 hours. Form: Respirable			
	fraction			
	TWA: 15 mg/m ³ 8 hours. Form: Total dust			
calcium bis(2-ethylhexanoate)	None.			
2-butanone oxime	IPEL (-).			
	TWA: 3 ppm			
	STEL: 9 ppm			
2-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 1/2023).			
	[Zirconium and compounds as Zr]			
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	e controls/personal prot	ection		
cobalt bis(2-ethylhexanoate)		STEL: 10 mg/m ³ , (as Zr) 15 minutes. TWA: 5 mg/m ³ , (as Zr) 8 hours. OSHA PEL (United States, 5/2018). [Zirconium compounds (as Zr)] TWA: 5 mg/m ³ , (as Zr) 8 hours. ACGIH TLV (United States, 1/2023). [cobal and inorganic compounds as Co] Skin sensitizer. Inhalation sensitizer. TWA: 0.02 mg/m ³ , (as Co) 8 hours.		
	Key to abbreviations			
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expos OSHA = Occupational Safety and H R = Respirable Z = OSHA 29 CFR 1910.1200	overnmental Industrial Hygienists. ure Limit lealth Administration. Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average		
Consult local authorities for ac				
Recommended monitoring procedures		ate monitoring standards. Reference to national e determination of hazardous substances will		
Appropriate engineering controls Environmental exposure controls	 other engineering controls to keep work recommended or statutory limits. The evapor or dust concentrations below any ventilation equipment. Emissions from ventilation or work proceeding they comply with the requirements of ending 	e process enclosures, local exhaust ventilation of er exposure to airborne contaminants below any engineering controls also need to keep gas, lower explosive limits. Use explosion-proof ess equipment should be checked to ensure avironmental protection legislation. In some bering modifications to the process equipment o acceptable levels.		
Individual protection measures				
	 Wash hands, forearms and face thoroug eating, smoking and using the lavatory a Appropriate techniques should be used Contaminated work clothing should not 	to remove potentially contaminated clothing. be allowed out of the workplace. Wash Ensure that eyewash stations and safety		
Eye/face protection	Safety glasses with side shields.			
Skin protection				
	worn at all times when handling chemica necessary. Considering the parameters during use that the gloves are still retain noted that the time to breakthrough for a glove manufacturers. In the case of mix protection time of the gloves cannot be	complying with an approved standard should be al products if a risk assessment indicates this is a specified by the glove manufacturer, check hing their protective properties. It should be any glove material may be different for different xtures, consisting of several substances, the accurately estimated.		
Gloves	butyl rubber			
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Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	1	Copper.	
Odor	1	Not available.	
Odor threshold	1	Not available.	
рН	4	Not available.	
Melting point	4	Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	4	Closed cup: 38°C (100.4°F)	
Auto-ignition temperature	4	Not available.	
Decomposition temperature	4	Not available.	
Flammability	4	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	4	Not available.	
Vapor pressure	4	Not available.	
Vapor density	4	Not available.	
Relative density	4	1.25	
Density(lbs / gal)	4	10.43	
		Media	Result
Solubility(ies)	÷	cold water	Partially soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	1	Kinematic (40°C (104°F)): >2	21 mm²/s (>21 cSt)
Volatility	4	56% (v/v), 34.865% (w/w)	

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Section 10. Stability and reactivity Reactivity : No specific test data related to reactivity available for this product or its ingredients. **Chemical stability** : The product is stable. **Possibility of hazardous** : Under normal conditions of storage and use, hazardous reactions will not occur. reactions Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. **Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. **Hazardous decomposition** ÷. Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides products

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
c ópper	LC50 Inhalation Dusts and mists	Rat	>5.11 mg/l	4 hours
Naphtha (petroleum),	LD50 Dermal	Rabbit	>5000 mg/kg	-
hydrotreated heavy				
	LD50 Oral	Rat	>6 g/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
askalthis (2 sthudh sugar sets)	LD50 Oral	Rat	>5 g/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg	-
	LD50 Oral	Rai	3129 mg/kg	
Conclusion/Summary	: There are no data available on the	ne mixture itself		
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the	ne mixture itself		
Eyes	: There are no data available on the	ne mixture itself	•	
Respiratory	: There are no data available on the	ne mixture itself		
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: There are no data available on the	ne mixture itself		

Respiratory

I here are no data available on the mixture itself.

: There are no data available on the mixture itself.

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Section 11. Toxicol	ogical	inforn	nation			
Mutagenicity	- 3					
	There ar	e no data a	available on the mi	xture itse	elf.	
<u>Carcinogenicity</u>						
	There ar	e no data a	available on the mi	xture itse	elf.	
Classification						
Product/ingredient name	OSHA	IARC	NTP			
diiron trioxide cobalt bis(2-ethylhexanoate)	-	3 2B	- Reasonably anti	cipated to	o be a human ca	rcinogen.
Carcinogen Classification of	:ode:					
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: + Not listed/not regula	a human car	cinogen; Rea	asonably anticipated t	o be a hun	nan carcinogen	
Reproductive toxicity						
	There are	e no data a	vailable on the mix	ture itse	lf.	
Teratogenicity						
Conclusion/Summary :	There are	e no data a	vailable on the mix	ture itse	f.	
<u>Specific target organ toxicity (</u>	single ex	<u>posure)</u>	·			·
Name			Category	/	Route of	Target organs
Naphtha (petroleum), hydrotrea	ted heavy		Category	3	exposure -	Respiratory tract irritation
<u>Specific target organ toxicity (</u>	repeated	exposure)	I			
Name			Category	/	Route of exposure	Target organs
Nume						
Stoddard solvent			Category	1	-	central nervous system (CNS)
Stoddard solvent	Contains liver, dige	material w estive syste	hich causes dama	ge to the amage to I tract, up	the following or oper respiratory t	system (CNS) s: brain. gans: kidneys, lungs,
Stoddard solvent Target organs : Aspiration hazard	Contains liver, dige	material w estive syste	hich causes dama hich may cause da m, gastrointestina	ge to the amage to I tract, up ornea, tes	the following orgoper respiratory t stes.	system (CNS) s: brain. gans: kidneys, lungs,
Stoddard solvent Target organs : Aspiration hazard Name	Contains liver, dige nervous	material w estive syste	hich causes dama hich may cause da m, gastrointestina	ge to the image to I tract, up prnea, tes Res	the following orgoper respiratory t stes.	s: brain. gans: kidneys, lungs, ract, skin, central
Stoddard solvent Target organs : Aspiration hazard	Contains liver, dige nervous s ated light	material w estive syste	hich causes dama hich may cause da m, gastrointestina	ge to the amage to I tract, up prnea, tes Res ASP ASP	the following orgoper respiratory t stes.	system (CNS) s: brain. gans: kidneys, lungs, ract, skin, central RD - Category 1 RD - Category 1
Stoddard solvent Target organs : Aspiration hazard Name Distillates (petroleum), hydrotrea Naphtha (petroleum), hydrotrea Stoddard solvent	Contains liver, dige nervous s ated light ted heavy	material w estive syste system (CN	hich causes dama hich may cause da m, gastrointestina	ge to the amage to I tract, up prnea, tes Res ASP ASP	the following orgoper respiratory to stes. ult IRATION HAZAI	system (CNS) s: brain. gans: kidneys, lungs, ract, skin, central RD - Category 1 RD - Category 1
Stoddard solvent Target organs Aspiration hazard Name Distillates (petroleum), hydrotreat Stoddard solvent formation on the likely routes	Contains liver, dige nervous s ated light ted heavy	material w estive syste system (CN	hich causes dama hich may cause da m, gastrointestina	ge to the amage to I tract, up prnea, tes Res ASP ASP	the following orgoper respiratory to stes. ult IRATION HAZAI	system (CNS) s: brain. gans: kidneys, lungs, ract, skin, central RD - Category 1 RD - Category 1
Stoddard solvent Target organs Aspiration hazard Name Distillates (petroleum), hydrotrea Stoddard solvent formation on the likely routes Potential acute health effects	Contains liver, dige nervous s ated light ted heavy	material w estive syste system (CN	hich causes dama hich may cause da m, gastrointestina IS), eye, lens or co	ge to the amage to I tract, up ornea, tes Res ASP ASP	the following org oper respiratory t stes. IRATION HAZAI IRATION HAZAI IRATION HAZAI	system (CNS) s: brain. gans: kidneys, lungs, ract, skin, central RD - Category 1 RD - Category 1
Stoddard solvent Target organs : Aspiration hazard Name Distillates (petroleum), hydrotrea Stoddard solvent formation on the likely routes Potential acute health effects Eye contact :	Contains liver, dige nervous s ated light ted heavy of expos No know	material w estive syste system (CN ure n significan	hich causes dama hich may cause da m, gastrointestina	ge to the amage to I tract, up ornea, tes Res ASP ASP ASP	the following orgoper respiratory t stes. IRATION HAZAI IRATION HAZAI IRATION HAZAI	system (CNS) s: brain. gans: kidneys, lungs, ract, skin, central RD - Category 1 RD - Category 1

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Section 11. Toxicological information

	•
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>ioms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: irritation redness dryness
	cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths
Delayed and immediate offer	skeletal malformations ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption
	through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</u>
General	 Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.
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Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
diron trioxide	10000	1100	N/A	N/A	N/A
2-butanone oxime	500		N/A	N/A	N/A
cobalt bis(2-ethylhexanoate)	3129		N/A	N/A	N/A

Section 12. Ecological information

Toxicity Product/ingredient name Result **Species Exposure** copper Acute LC50 810 ppb 96 hours Fish Chronic EC10 8.1 µg/l Daphnia - Daphnia magna -21 days Neonate Acute EC50 >100 mg/l diiron trioxide Daphnia 48 hours Acute LC50 >100 mg/l 2-ethylhexanoic acid, Fish 96 hours zirconium salt

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated light	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
istillates (petroleum), hydrotreated light	-	159	Low
Stoddard solvent 2-butanone oxime	3.16 to 7.06 0.63	- 5.01	High Low

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	111	111
Environmental hazards	Ves.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(copper)	(copper)	Not applicable.
Product RQ (lbs)	17615.7	Not applicable.	Not applicable.
RQ substances	(copper)	Not applicable.	Not applicable.

Additional information

DOT	: This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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Product code 110L

Product name METALLIC COPPER

14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are active or exempted.

United States - TSCA 5(a)2 - Final significant new use rules:	
mercury	Listed
United States - TSCA 5(a)2 - Proposed significant new use rules:	
4-nonylphenol, branched	Listed
SARA 302/304	

SARA 302/304 SARA 304 RQ

: Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification	
Sistillates (petroleum), hydrotreated light	≥20 - ≤50	ASPIRATION HAZARD - Category 1	
Naphtha (petroleum), hydrotreated heavy	≥1.0 - ≤6.7	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant	
Stoddard solvent	≥1.0 - ≤3.2	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant	
calcium bis(2-ethylhexanoate)	<1.0	SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B	
2-butanone oxime	<1.0	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4	
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Product name METALLIC COF	PER	
Section 15. Regulato	ry inforr	nation
2-ethylhexanoic acid, zirconium salt cobalt bis(2-ethylhexanoate)	≤1.0 <1.0	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 COMBUSTIBLE DUSTS TOXIC TO REPRODUCTION - Category 1B EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B

	<u>Chemical name</u>	<u>CAS number</u>	Concentration
Supplier notification	: <mark>ø</mark> opper	7440-50-8	10 - 30
	cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1
	lead massive	7439-92-1	0.0005678
	mercury	7439-97-6	0.00014195

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Section 16. Other information

Hazardous Material Information System (U.S.A.) Health : 2 * Flammability : 2 Physical hazards :

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

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Section 16. Other information

SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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