SAFETY DATA SHEET

1020

Section 1. Identification

Product name	: KRYLON® Premium Metallic Copper Brilliance	
Product code	: 1020	
Other means of identification	Not available.	
Product type	: Aerosol.	
Relevant identified uses of t	he substance or mixture and uses advised against	
Paint or paint related material.		
Manufacturer	: Krylon Products Group 101 W. Prospect Avenue Cleveland, OH 44115	
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year	
Product Information Telephone Number	: US / Canada: (800) 457-9566 Mexico: Not Available	
Transportation Emergency Telephone Number	: US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 16.3% (oral), 21% (dermal), 21% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

1/21	:24	Version	: 4/18/2024	Date of previous issue	: 5/19/2024	Date of revision	Date of issue
US	NA-GHS-US	SHW-85-N			n Metallic	KRYLON® Premiu	1020
US	NA-GHS-US	SHW-85-1			n Metallic	KRYLON® Premiu Copper Brilliance	1020

Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
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. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Ethylbenzene	≥25 - ≤43	100-41-4
Acetone	≥10 - <20	67-64-1
Propane	≥10 - ≤25	74-98-6
Butane	≥10 - ≤25	106-97-8
Copper	≤5	7440-50-8
Xylene, mixed isomers	≤0.3	1330-20-7
Toluene	≤0.3	108-88-3

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

Date of issu	ie/Date of revision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version : 24	2/21
1020 KRYLON® Premium Metallic				SHW-85-NA-GHS-US		
Copper Brilliance						

Section 3. Composition/information on ingredients

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important s	<u>ymptoms/effects, acute and delayed</u>
Potential acute	<u>nealth effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: No known significant effects or critical hazards.
Ingestion	 Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
<u>Over-exposure</u>	signs/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight
Date of issue/Date of	revision : 5/19/2024 Date of previous issue : 4/18/2024 Version : 24 3/21
	RYLON® Premium Metallic SHW-85-NA-GHS-US opper Brilliance SHW-85-NA-GHS-US

Section 4. First aid measures

	increase in fetal deaths skeletal malformations
:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
•	: dical

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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 Remark	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Flammable aerosol.

Date of previous issue

: 4/18/2024

Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. 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".
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).
Methods and materials for co	ont	ainment 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 container. 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 handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 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 swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.
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.

5/21

Date of issue/Date	of revision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version	: 24
1020	KRYLON® Premium M Copper Brilliance	etallic			SHW-85-	NA-GHS-US

Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Ethylbenzene	100-41-4	ACGIH TLV (United States, 7/2023). Ototoxicant. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 435 mg/m ³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours.
Acetone	67-64-1	ACGIH TLV (United States, 7/2023). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. NIOSH REL (United States, 10/2020). TWA: 250 ppm 10 hours. TWA: 590 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m ³ 8 hours.
Propane	74-98-6	 NIOSH REL (United States, 10/2020). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). Oxyger Depletion [Asphyxiant]. Explosive potentia
Butane	106-97-8	 NIOSH REL (United States, 10/2020). TWA: 800 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. ACGIH TLV (United States, 7/2023). [Butane] Explosive potential. STEL: 1000 ppm 15 minutes.
Copper	7440-50-8	ACGIH TLV (United States, 7/2023). [copper dusts and mists] TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dust and mist NIOSH REL (United States, 10/2020). TWA: 1 mg/m ³ , (as Cu) 10 hours. Form: Dusts and Mists 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
ate of issue/Date of revision : 5/19/2	2024 Date of previous issue	: 4/18/2024 Version : 24 6/2
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Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 7/2023). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume OSHA PEL (United States, 5/2018). [Xylenes]
		TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. ACGIH TLV (United States, 7/2023). [p-
		xylene and mixtures containing p-xylene]
		Ototoxicant.
		TWA: 20 ppm 8 hours.
Toluene	108-88-3	OSHA PEL Z2 (United States, 2/2013).
		TWA: 200 ppm 8 hours.
		CEIL: 300 ppm
		AMP: 500 ppm 10 minutes.
		NIOSH REL (United States, 10/2020).
		TWA: 100 ppm 10 hours.
		TWA: 375 mg/m ³ 10 hours.
		STEL: 150 ppm 15 minutes. STEL: 560 mg/m ³ 15 minutes.
		ACGIH TLV (United States, 7/2023).
		Ototoxicant.
		TWA: 20 ppm 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Ethylbenzene	100-41-4	 CA Alberta Provincial (Canada, 3/2023). OEL: 100 ppm 8 hours. OEL: 434 mg/m³ 8 hours. OEL: 543 mg/m³ 15 minutes. OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2023). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
acetone	67-64-1	 CA Alberta Provincial (Canada, 3/2023). OEL: 1200 mg/m³ 8 hours. OEL: 1800 mg/m³ 15 minutes. OEL: 500 ppm 8 hours. OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 8/2023). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2023). TWA: 250 ppm 8 hours.
ate of issue/Date of revision : 5/19	/2024 Date of previous issue	: 4/18/2024 Version : 24 7/
020 KRYLON® Premium Metallic Copper Brilliance		SHW-85-NA-GHS-US

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	Normal propane	74-98-6	 STEV: 500 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours. CA Alberta Provincial (Canada, 3/2023). OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2023).
			7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). Oxygen Depletion [Asphyxiant]. Explosive potential. CA Ontario Provincial (Canada, 6/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
	Butane	106-97-8	 CA Alberta Provincial (Canada, 3/2023). OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Butane] STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). [butane, all isomers] Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). [Butane, All isomers] Explosive potential. STEL: 1000 ppm 15 minutes.
	Copper	7440-50-8	CA Alberta Provincial (Canada, 3/2023). [Copper (dust/mists)] OEL: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and Mists CA British Columbia Provincial (Canada, 8/2023). [Copper (dusts and mists)] TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and mists CA Alberta Provincial (Canada, 3/2023). [Copper (fume)] OEL: 0.2 mg/m ³ 8 hours. Form: Fume CA British Columbia Provincial (Canada, 8/2023). [Copper (fume)] TWA: 0.2 mg/m ³ , (as Cu) 8 hours. Form: Fume CA Ontario Provincial (Canada, 6/2019). TWA: 0.2 mg/m ³ , (as Cu) 8 hours. Form: Fume TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: fume TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: dust and mists
D	Date of issue/Date of revision : 5/19/2024 Date of	of previous issue	: 4/18/2024 Version : 24 8/21
1	020 KRYLON® Premium Metallic Copper Brilliance		SHW-85-NA-GHS-US

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			 CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.6 mg/m³, (measured as Cu) 15 minutes. Form: Fume TWA: 0.2 mg/m³, (measured as Cu) 8 hours. Form: Fume STEL: 3 mg/m³, (measured as Cu) 15 minutes. Form: dust and mist TWA: 1 mg/m³, (measured as Cu) 8 hours. Form: dust and mist CA Quebec Provincial (Canada, 7/2023). [Copper , dusts & mists] TWAEV: 1 mg/m³, (as Cu) 8 hours. Form: dusts & mists CA Quebec Provincial (Canada, 7/2023). [Copper, fume] TWAEV: 0.2 mg/m³, (as Cu) 8 hours. Form: fume
Xylene		1330-2	 20-7 CA Alberta Provincial (Canada, 3/2023). [Dimethylbenzene] OEL: 100 ppm 8 hours. OEL: 651 mg/m³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). [Xylene (o, m & p isomers)] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). [Xylene] TWAEV: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023). [Xylene] TWAEV: 100 ppm 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. STEV: 651 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Toluene		108-88	
<i>Date of issue/Date</i> 1020	of revision : 5/19/2024 KRYLON® Premium Metallic Copper Brilliance	Date of previous iss	ue : 4/18/2024 Version : 24 9/21 SHW-85-NA-GHS-US

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Acetone	67-64-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.
Copper	7440-50-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.2 mg/m ³ , (as Cu) 8 hours. Form: Fumes TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: powder and mist
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Ethylbenzene	ACGIH BEI (United States, 7/2023) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Acetone	ACGIH BEI (United States, 7/2023) BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.
Xylene, mixed isomers	ACGIH BEI (United States, 7/2023) [xylenes (technical or commercial grades)] BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Toluene	ACGIH BEI (United States, 7/2023) BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name			Exposure indices				
Ethylbenzene				Official Mexican S 047-SSA1-2011, E Biological expose occupationally ex substances. (Mex BEI: 0.7 g/g creat determinant is non found after expose semi-quantitative. an indicator of che quantitative interpr	invironment are indices f posed to ch tico, 6/2012) tinine [non-sp specific, sind are to other cl The biologica mical expose	tal Health- for person nemical pecific.The ce it can be hemicals.; Il determina ure, but the	nel
Date of issue/Date of rev	ision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version	: 24	10/21
	.ON® Premium M er Brilliance	letallic			SHW-85-I	NA-GHS-US	

	ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], Sum of mandelic acid and acid phenylglyoxylic [in urine]. Sampling time: at the end of the shift at the end of the work week. BEI: semi-quantitative.The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible., ethylbenzene [in exhaled air]. Sampling time: uncritical.
Acetone	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 50 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the work shift.
Toluene	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified. BEI: 1.6 g/g creatinine [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 0.5 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], o-cresol [in urine]. Sampling time: at the end of the work shift.

11/21

controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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 anti-static 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 :	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Boiling point, initial boiling point, and boiling range	: Not available.
Melting point/freezing point	: Not available.
рН	: 7
Odor threshold	: Not available.
Odor	: Not available.
Color	: Clear.
Physical state	: Liquid.
<u>Appearance</u>	

Date of issue/Date	e of revision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version : 24	12/21
1020	KRYLON® Premium M Copper Brilliance	letallic			SHW-85-NA-GHS-US	

Section 9. Physical and chemical properties

Evaporation rate	: 5.6	: 5.6 (butyl acetate = 1)			
Flammability	: Fla	: Flammable aerosol.			
Lower and upper explosion limit/flammability limit		: Lower: 1% Upper: 12.8%			
Vapor pressure	: 10 ⁻	1.3 kPa (760 mm Hg)			
Relative vapor density	: 1.5	5 [Air = 1]			
Relative density	: 0.7	5			
Solubility(ies)	:				
Media		Result			
cold water		Not soluble			
Partition coefficient: n- octanol/water	: Not applicable.				
Auto-ignition temperature	: No	t available.			
Decomposition temperature	: No	t available.			
Viscosity	: Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)				
Molecular weight	: Not applicable.				
Aerosol product					
Type of aerosol	: Sp	ray			
Heat of combustion	: 27.	781 kJ/g			

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 reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
5	LD50 Oral	Rat	3500 mg/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

Date of issue/Date	of revision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version	: 24	13/21
1020	KRYLON® Premium Me Copper Brilliance	etallic			SHW-85-I	NA-GHS-US	

Section 11. Toxicological information

Irritation/Corrosion							
Product/ingredient name	Result	Species	Score	Exposure	Observation		
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-		
	Skin - Mild irritant	Rabbit	-	24 hours 15	-		
				mg			
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-		
	Eyes - Mild irritant	Rabbit	-	10 uL	-		
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-		
				mg			
	Eyes - Severe irritant	Rabbit	-	20 mg	-		
	Skin - Mild irritant	Rabbit	-	395 mg	-		
	Skin - Mild irritant	Rabbit	-	24 hours 500	-		
				mg			
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-		
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-		
				mg			
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-		
	Skin - Moderate irritant	Rabbit	-	100 %	-		
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-		
				mg			
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-		
				100 mg			
	Eyes - Mild irritant	Rabbit	-	870 ug	-		
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-		
				mg			
	Skin - Mild irritant	Pig	-	24 hours 250	-		
				uL			
	Skin - Mild irritant	Rabbit	-	435 mg	-		
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-		
				mg			
	Skin - Moderate irritant	Rabbit	-	500 mg	-		

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethylbenzene Xylene, mixed isomers	-	2B 3	-
Toluene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issu	ie/Date of revis
1020	KRYLO
	Copper

4 Date of previous issue

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 3	-	Narcotic effects
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
Toluene	Category 3 Category 3	-	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Ethylbenzene	Category 2	-	-
	Category 2	-	-
Toluene	Category 2	-	-

Aspiration hazard

Name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	Not available.	
Potential acute health effe		
Eye contact	– Causes serious eye irritation.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	
Symptoms related to the	vsical, chemical and toxicological characteristics	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Date of issue/Date of revision	: 5/19/2024 Date of previous issue : 4/18/2024 Version : 24	15/21
1020 KRYLON® Pre Copper Brillian	m Metallic SHW-85-NA-GHS-US	

Section 11. Toxicological information

Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	ffects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: May damage the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
-	

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
	4712.95 mg/kg
Inhalation (vapors)	29.57 mg/l

Section 12. Ecological information

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Product/ingredient name	Result	Species	Exposure
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours 🥄
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 7460000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
Date of issue/Date of revision	: 5/19/2024 Date of previous issue	: 4/18/2024 Version : 2	24 16/21
1020 KRYLON® Prem Copper Brilliance		SHW-85-NA	-GHS-US

Section 12. Ecological information

Section 12. LCO	ogical information		
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - <i>Gasterosteus aculeatus</i> - Larvae	42 days
Copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 μg/l Fresh water	Daphnia - <i>Daphnia longispina</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 16 µg/l Fresh water	Algae - <i>Chlorella pyrenoidosa</i> - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - <i>Plantae</i> - Exponential growth phase	72 hours
	Acute LC50 0.072 μg/l Marine water Acute LC50 7.56 μg/l Marine water	Crustaceans - <i>Amphipoda</i> - Adult Fish - <i>Periophthalmus waltoni</i> - Adult	48 hours 96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - <i>Nitzschia closterium</i> - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Ethylbenzene	-	-	Readily	
Acetone Xylene, mixed isomers	-	-	Readily Readily	
Toluene	-	-	Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers		8.1 to 25.9	Low 💙
Toluene		90	Low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Date of issue/Date	of revision	: 5/19/2024	Date of previous issue	: 4/18/2024
1020	KRYLON® Premium Me Copper Brilliance	etallic		

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S- U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.

1020

Section 14. Transport information

Special precautions for user	1	Multi-modal shipping descriptions are provided for informational purposes and do not
		consider container sizes. The presence of a shipping description for a particular
		mode of transport (sea, air, etc.), does not indicate that the product is packaged
		suitably for that mode of transport. All packaging must be reviewed for suitability prior
		to shipment, and compliance with the applicable regulations is the sole responsibility
		of the person offering the product for transport. People loading and unloading
		dangerous goods must be trained on all of the risks deriving from the substances
		and on all actions in case of emergency situations.
		o <i>i</i>
Transport in bulk according	ι,	Not available.
Transport in bulk according	ι,	Not available.

to IMO instruments

Proper shipping name

: Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet, where applicable.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists	China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



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.

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 SDSs 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.

Procedure used to derive the classification

Date of issue/Date	e of revision	: 5/19/2024	Date of previous issue	: 4/18/2024	Version : 24	19/21
1020	KRYLON® Premium Metallic Copper Brilliance				SHW-85-NA-GHS-US	

Section 16. Other information

	Classification	Justification	
FLAMMABLE AEROSOLS GASES UNDER PRESSU SERIOUS EYE DAMAGE/ CARCINOGENICITY - Cat TOXIC TO REPRODUCTI SPECIFIC TARGET ORG/ Category 3 SPECIFIC TARGET ORG/ ASPIRATION HAZARD - C	On basis of test data On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method		
History			
Date of printing	: 5/19/2024		
Date of issue/Date of revision	: 5/19/2024		
Date of previous issue	: 4/18/2024		
Version	: 24		
 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) 			

N/A = Not available

SGG = Segregation Group

UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

: 5/19/2024 Date of previous issue

: 4/18/2024

Date of issu	: 5/19/2024		
1020	KRYLON® Premium Metallic		
	Copper Brilliance		

Date of previous issue

: 4/18/2024