SAFETY DATA SHEET

42204

Section 1. Identification

Product name	: KRYLON® Metallic Brass Metallic
Product code	: 42204
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 180 Brunel Road Mississauga, ON L4Z 1T5
Emergency telephone number of the company	: (216) 566-2917
Product Information Telephone Number	: (800) 247-3268
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency	: (800) 424-9300

Section 2. Hazards identification

Telephone Number

Classification of the	: FLAMMABLE AEROSOLS - Category 1
substance or mixture	GASES UNDER PRESSURE - Compressed gas
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION (Unborn child) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	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 oral toxicity: 16.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 33.5%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 33.5%
GHS label elements	
Hazard pictograms	
nazara protogranio	
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Date of issue/Date of re	revision : 8	8/12/2019	Date of previous issue	: 5/22/2019	Version	: 6	1/18
	YLON® Metallic ass Metallic				SHW-85-N	IA-GHS-CA	

Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Suspected of damaging the unborn child. Suspected of causing cancer. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. 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. Wear eye or face protection. Wear protective clothing. 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 hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. 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 attention.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
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. 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	29.95	100-41-4
Acetone	17.2	67-64-1
Propane	16.32	74-98-6
Butane	15.68	106-97-8
Xylene, mixed isomers	0.17	1330-20-7
Toluene	0.12	108-88-3

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

Date of issue/Dat	e of revision	: 8/12/2019	Date of previous issue	: 5/22/2019	Version : 6	2/18
42204	KRYLON® Metallic Brass Metallic				SHW-85-NA-GHS-CA	

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 as hazardous to health 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. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 symptoms/effects, acute and delayed Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. 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. **Over-exposure 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 : 8/12/2019 Date of previous issue : 5/22/2019 Version : 6 3/18 42204 **KRYLON®** Metallic SHW-85-NA-GHS-CA Brass Metallic

Section 4. First aid measures

	increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate medi	ical 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.

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
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, protec	tiv	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 bazard as the spilled product. Note: see Section 1 for emergency contact

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.

information and Section 13 for waste disposal.

: 8/12/2019 Date of previous issue

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, 3/2018). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). 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, 3/2018). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. NIOSH REL (United States, 10/2016). 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, 10/2016). 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, 3/2018). Oxyge Depletion [Asphyxiant].
Butane	106-97-8	NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2018). STEL: 1000 ppm 15 minutes.
Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 3/2018). TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 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, 10/2016).
ate of issue/Date of revision : 8/12/2019	Date of previous issue	: 5/22/2019 Version : 6 6/1
204 KRYLON® Metallic		SHW-85-NA-GHS-CA

Section 8. Exposure controls/personal protection

	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, 3/2018). TWA: 20 ppm 8 hours.
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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits		
Ethylbenzene	100-41-4	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 8 hrs OEL: 434 mg/m³ 8 hours. 15 min OEL: 543 mg/m³ 15 minutes. 15 min OEL: 125 ppm 15 minutes. CA British Columbia Provincial (Canada, 7/2018). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 100 ppm 8 hours. STEV: 125 ppm 15 minutes. STEV: 543 mg/m³ 15 minutes. STEV: 543 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. 		
Acetone	67-64-1	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 7/2018). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 1/2018). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 1/2018). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 500 ppm 8 hours. TWAEV: 1190 mg/m³ 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours. 		
Normal propane	74-98-6	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Ontario Provincial (Canada, 1/2018). TWA: 1000 ppm 8 hours. 		

Section 8. Exposure controls/personal protection

		CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada,
		7/2018). Oxygen Depletion [Asphyxiant].
Butane	106-97-8	CA Alberta Provincial (Canada, 6/2018).
		8 hrs OEL: 1000 ppm 8 hours.
		CA Quebec Provincial (Canada, 1/2014).
		TWAEV: 800 ppm 8 hours.
		TWAEV: 1900 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 1/2018).
		TWA: 800 ppm 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013).
		STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.
		CA British Columbia Provincial (Canada,
		7/2018).
		STEL: 1000 ppm 15 minutes.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes.
		8 hrs OEL: 434 mg/m ³ 8 hours.
		CA British Columbia Provincial (Canada, 7/2018).
		TWA: 100 ppm 8 hours.
		STEL: 150 ppm 15 minutes.
		CA Quebec Provincial (Canada, 1/2014).
		TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m ³ 8 hours.
		STEV: 150 ppm 15 minutes.
		STEV: 651 mg/m ³ 15 minutes.
		CA Ontario Provincial (Canada, 1/2018).
		STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013).
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Toluene	108-88-3	CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.
		8 hrs OEL: 50 ppm 8 hours.
		8 hrs OEL: 188 mg/m ³ 8 hours. CA British Columbia Provincial (Canada,
		7/2018).
		TWA: 20 ppm 8 hours.
		CA Ontario Provincial (Canada, 1/2018).
		TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014).
		Absorbed through skin.
		TWAEV: 50 ppm 8 hours.
		TWAEV: 188 mg/m ³ 8 hours.
		CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.
		STEL: 60 ppm 15 minutes.
	Defe of providence i	
Date of issue/Date of revision : 8/12/2019	Date of previous issue	: 5/22/2019 Version : 6 8/10
2204 KRYLON® Metallic Brass Metallic		SHW-85-NA-GHS-CA

Section 8. Exposure controls/personal protection

		TWA: 50 ppm 8 hours.
Occupational exposure limits (Mexi	i <u>co)</u>	
Ingredient name	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.
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Appropriate engineer controls	ing :	other engine	eering controls to keep	worker exposure to a	ures, local exhaust ventilation or airborne contaminants below any
			st concentrations below		rols also need to keep gas, limits. Use explosion-proof
Environmental expos controls	ure :	they comply cases, fume	missions from ventilation or work process equipment should be checked to ensure ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process equipment vill be necessary to reduce emissions to acceptable levels.		
Individual protection	measures				
Hygiene measures	:	eating, smo Appropriate Wash conta	king and using the lava techniques should be u	tory and at the end o used to remove poter e reusing. Ensure the	ng chemical products, before f the working period. ntially contaminated clothing. at eyewash stations and safety
Eye/face protection	:	assessmen gases or du	t indicates this is neces sts. If contact is possib	sary to avoid exposu ble, the following prot	nould be used when a risk re to liquid splashes, mists, ection should be worn, unless chemical splash goggles.
Skin protection					
Hand protection	:	worn at all t necessary. during use t noted that th glove manu	imes when handling ch Considering the param hat the gloves are still r ne time to breakthrough	emical products if a r eters specified by the etaining their protect of any glove mater of mixtures, consistin	n approved standard should be isk assessment indicates this is e glove manufacturer, check ive properties. It should be al may be different for different g of several substances, the ated.
Body protection	:	performed a handling this static protect	and the risks involved a s product. When there	nd should be approve is a risk of ignition fro reatest protection fro	elected based on the task being ed by a specialist before om static electricity, wear anti- m static discharges, clothing
Other skin protecti	on :	based on th		and the risks involve	measures should be selected ed and should be approved by a
Respiratory protecti	on :	appropriate	standard or certification protection program to e	n. Respirators must	a respirator that meets the be used according to a raining, and other important
Date of issue/Date of revision	on	: 8/12/2019	Date of previous issue	: 5/22/2019	Version : 6 9/18
42204 KRYLON Brass Me	® Metallic tallic				SHW-85-NA-GHS-CA

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 7
Melting point/freezing point	: Not available.
Boiling point/boiling range	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 5.6 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Lower: 1%
(flammable) limits	Upper: 12.8%
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	: 1.55 [Air = 1]
Relative density	: 0.76
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm ² /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 27.744 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.

: 8/12/2019 Date of previous issue

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	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	5000 ppm	4 hours
•	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
-				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
Acetone	Eyes - Mild irritant	Human	-	186300 parts	-
	-			per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	-			milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	_
	,			milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	_
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	_
				milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	_
	y			100	
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
	,			Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	_
	,			milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	_
				microliters	
	Skin - Mild irritant	Rabbit	-	435	_
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	_
				milligrams	

Sensitization

Not available.

Mutagenicity

Not available.

Date of issue/Date of revision		
42204	KRYLON® Metallic Brass Metallic	

Carcinogenicity

Not available.

Classification

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

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Acetone	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Propane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Butane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Xylene, mixed isomers	Category 3	Not applicable.	Respiratory tract irritation
Toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	Not determined	Not determined
Acetone	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Xylene, mixed isomers	Category 2	Not determined	Not determined
Toluene	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Ethylbenzene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1

Date of issue/Date of revision					
42204	KRYLON® Metallic				
Brass Metallic					

: 8/12/2019 Date of previous issue

Information on the likely routes of exposure	1	Not available.				
Potential acute health effects						
Eye contact	1	Causes serious eye irritation.				
Inhalation	1	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.				
Skin contact	1	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 p	ohy	sical, 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				
Ingestion	:	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations				
	fec	ts and also chronic effects from short and long term exposure				
Short term exposure						
Potential immediate effects	1	Not available.				
Potential delayed effects	1	Not available.				
Long term exposure						
Potential immediate effects	:	Not available.				
Potential delayed effects	:	Not available.				
Potential chronic health ef	fec	<u>cts</u>				
Not available.						

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.

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Date of issue/Date	of revision	: 8/12/2019	Date of previous issue	: 5/22/2019	Version : 6	13/18
42204	KRYLON® Metallic Brass Metallic				SHW-85-NA-GHS-CA	

Teratogenicity Developmental effects Fertility effects

- : Suspected of damaging the unborn child.
- No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	9779.23 mg/kg
Inhalation (vapors)	24.42 mg/l

Section 12. Ecological information

Toxicity **Product/ingredient name** Result Species **Exposure** Ethylbenzene Acute EC50 4600 µg/l Fresh water Algae - Pseudokirchneriella 72 hours subcapitata Acute EC50 3600 µg/l Fresh water Algae - Pseudokirchneriella 96 hours subcapitata Acute EC50 6.53 mg/l Marine water Crustaceans - Artemia sp. -48 hours Nauplii Acute EC50 2.93 mg/l Fresh water Daphnia - Daphnia magna -48 hours Neonate Acute LC50 4200 µg/l Fresh water Fish - Oncorhynchus mykiss 96 hours Acute EC50 7200000 µg/l Fresh water Algae - Selenastrum sp. Acetone 96 hours Acute LC50 6000000 µg/l Fresh water Crustaceans - Gammarus pulex 48 hours Acute LC50 6900 mg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 5600 ppm Fresh water Fish - Poecilia reticulata 96 hours Chronic NOEC 4.95 mg/l Marine water Algae - Ulva pertusa 96 hours Chronic NOEC 0.016 ml/L Fresh water Crustaceans - Daphniidae 21 days Chronic NOEC 0.1 ml/L Fresh water Daphnia - Daphnia magna -21 days Neonate Fish - Fundulus heteroclitus Chronic NOEC 0.1 mg/l Fresh water 4 weeks Crustaceans - Palaemonetes Xylene, mixed isomers Acute LC50 8500 µg/l Marine water 48 hours oipua Acute LC50 13400 µg/l Fresh water Fish - Pimephales promelas 96 hours Toluene Acute EC50 12500 µg/l Fresh water Algae - Pseudokirchneriella 72 hours subcapitata Acute EC50 11600 µg/l Fresh water Crustaceans - Gammarus 48 hours pseudolimnaeus - Adult Daphnia - Daphnia magna -Acute EC50 5.56 mg/l Fresh water 48 hours Neonate Fish - Oncorhynchus kisutch - Fry Acute LC50 5500 µg/l Fresh water 96 hours Chronic NOEC 1000 µg/l Fresh water Daphnia - Daphnia magna 21 days

Persistence and degradability

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

 Date of issue/Date of revision

 42204
 KRYLON® Metallic

 Brass Metallic

: 8/12/2019 Date of previous issue

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)	

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	- ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). ERG No.	- ERG No.	-	<u>Emergency</u> <u>schedules</u> F-D, S- U
	126	126	126		

Date of issue/Date of revision		: 8/12/2019	Date of previous issue	: 5/22/2019	Version : 6	15/18
42204	KRYLON® Metallic Brass Metallic				SHW-85-NA-GHS-CA	

Section 14. Transport information

Special precautions for user	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.		
Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not available.		
	Proper shipping name	: Not available.	
	Ship type	: Not available.	
	Pollution category	: Not available.	

Section 15. Regulatory information

International regulations	
International lists	: Australia inventory (AICS): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (ENCS): 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.

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

Section 16. Other information

	Classification				
	Justification				
	FLAMMABLE AEROSOLS - Category 1				
GASES UNDER PRESSUP	Calculation method				
	EYE IRRITATION - Category 2A	Calculation method			
CARCINOGENICITY - Cate	Calculation method				
TOXIC TO REPRODUCTION	Calculation method				
SPECIFIC TARGET ORGA	Calculation method				
irritation) - Category 3					
SPECIFIC TARGET ORGA	Calculation method				
Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Calculation method					
	Calculation method				
ASPIRATION HAZARD - C	Calculation method				
<u>History</u>					
Date of printing	: 8/12/2019				
Date of issue/Date of	: 8/12/2019				
revision					
Date of previous issue	: 5/22/2019				
Version	: 6				
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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.

: 8/12/2019 Date of previous issue

 Date of issue/Date
 of revision

 42204
 KRYLON® Metallic

 Brass Metallic