SAFETY DATA SHEET

2397

Section 1. Identifi	cation		
Product name	: KRYLON® Rust Converting Primer		
Product code	: 2397		
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 US / Canada: (200) 457 0566 		
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. Hazard	s 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 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A		
	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 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 40% (oral), 53.5% (dermal)		
GHS label elements			
Hazard pictograms			

Signal word

2397

: Danger

1/16

Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. 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	: Wear protective gloves. Wear 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	: Get medical advice or attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. 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
Dimethyl Ether Acetone	≥25 - ≤50 ≥25 - ≤50	115-10-6 \ 67-64-1
2-Butoxyethanol	≤ <u>14</u>	111-76-2
Formic Acid	≤2.4	64-18-6

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessa	iry 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	: 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. 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 e	ffects	
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	: Causes skin irritation.	
Ingestion	: Can cause central nervous system (CNS) depression.	
Over-exposure signs/sy	mptoms	
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	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Indication of immediate r	nedical 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.	
Date of issue/Date of revision 2397 KRYLON® F	: 2/5/2024 Date of previous issue : 9/22/2023 Version : 8.01 3 Rust Converting Primer SHW-85-NA-GHS-US	/16

Section 4. First aid measures

 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-fig	hting 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.
Remark	: Flammable aerosol.

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 containment and cleaning up

Date of issue/Da	te of revision	: 2/5/2024	Date of previous issue	: 9/22/2023	Version : 8.01	4/16
2397	KRYLON® Rust C	Converting Primer			SHW-85-NA-GHS-US	

Section 6. Accidental release measures

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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
Conditions for safe storage, including any incompatibilities	: 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
Dimethyl Ether	115-10-6	OARS WEEL (United States, 4/2022). TWA: 1000 ppm 8 hours.
Acetone	67-64-1	ACGIH TLV (United States, 1/2023). 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.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2023). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2020).
I Date of issue/Date of revision : 2/5/2024 2397 KRYLON® Rust Converting Primer		: 9/22/2023 Version : 8.01 5/1 SHW-85-NA-GHS-US

Section 8. Exposure controls/personal protection

Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours.Formic Acid64-18-6ACGIH TLV (United States, 1/2023). TWA: 5 ppm 8 hours. TWA: 9.4 mg/m³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 19 pm/3 15 minutes.NIOSH REL (United States, 10/2020). TWA: 5 ppm 10 hours. TWA: 5 ppm 8 hours. STEL: 19 mg/m³ 10 hours. TWA: 5 ppm 8 hours. TWA: 9 mg/m³ 10 hours. TWA: 9 mg/m³ 10 hours. TWA: 9 mg/m³ 10 hours. TWA: 9 mg/m³ 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
cetone	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, 6/2022). 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 Quebec Provincial (Canada, 6/2022). TWAEV: 250 ppm 8 hours. STEV: 500 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). TWAEV: 250 ppm 8 hours. STEV: 500 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.
2-Butoxyethanol	111-76-2	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 97 mg/m³ 8 hours. 8 hrs OEL: 20 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours.
Formic acid	64-18-6	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 9.4 mg/m ³ 8 hours.
te of issue/Date of revision : 2/5/20	24 Date of previous issue	: 9/22/2023 Version : 8.01

Section 8. Exposure controls/personal protection

 •
15 min OEL: 10 ppm 15 minutes. 8 hrs OEL: 5 ppm 8 hours. 15 min OEL: 19 mg/m ³ 15 minutes. CA British Columbia Provincial (Canada, 6/2022). TWA: 5 ppm 8 hours. STEL: 10 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 5 ppm 8 hours. STEL: 10 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2022). TWAEV: 5 ppm 8 hours. TWAEV: 5 ppm 8 hours. STEV: 10 ppm 15 minutes. STEV: 10 ppm 15 minutes. STEV: 10 ppm 15 minutes. STEV: 19 mg/m ³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 ppm 15 minutes. TWA: 5 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
Acetone	67-64-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.
2-Butoxyethanol	111-76-2	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Formic Acid	64-18-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 ppm 8 hours. STEL: 10 ppm 15 minutes.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Acetone	ACGIH BEI (United States, 1/2023) BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.
2-Butoxyethanol	ACGIH BEI (United States, 1/2023) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name			Exposure indices			
Acetone			Official Mexica 047-SSA1-201 Biological exp occupationally substances. (M BEI: 50 mg/L is nonspecific, s exposure to oth urine]. Sampling	1, Environmen osure indices y exposed to c Mexico, 6/2012 [non-specific.Tl since it can be her chemicals.],	tal Health for perso hemical) he determ found afte acetone [onnel inant r ïn
Date of issue/Date of revision	: 2/5/2024	Date of previous issue	: 9/22/2023	Version	: 8.01	7/16
397 KRYLON® Rust	Converting Primer			SHW-85	-NA-GHS-US	3

Section 8. Exposure controls/personal protection

	shift.	
2-Butoxyethanol	047-SSA1 Biologica occupatio substanc BEI: 200 (BAA) [in t	exican STANDARD NOM- -2011, Environmental Health- I exposure indices for personnel onally exposed to chemical es. (Mexico, 6/2012) mg/g creatinine, butoxyacetic acid urine]. Sampling time: exposure the end of the work shift.
Appropriate engineering controls	: Use only with adequate ventilation. Use process e other engineering controls to keep worker exposur- recommended or statutory limits. The engineering vapor or dust concentrations below any lower explo- ventilation equipment.	e to airborne contaminants below any controls also need to keep gas,
Environmental exposure controls	Emissions from ventilation or work process equipm they comply with the requirements of environmenta cases, fume scrubbers, filters or engineering modifi will be necessary to reduce emissions to acceptable	al protection legislation. In some fications to the process equipment
Individual protection meas	<u>es</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after h eating, smoking and using the lavatory and at the e Appropriate techniques should be used to remove Wash contaminated clothing before reusing. Ensu showers are close to the workstation location.	end of the working period. potentially contaminated clothing.
Eye/face protection	: Safety eyewear complying with an approved stands assessment indicates this is necessary to avoid ex gases or dusts. If contact is possible, the following the assessment indicates a higher degree of protect	posure to liquid splashes, mists, protection should be worn, unless
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying w worn at all times when handling chemical products necessary. Considering the parameters specified during use that the gloves are still retaining their pr noted that the time to breakthrough for any glove n glove manufacturers. In the case of mixtures, cons protection time of the gloves cannot be accurately	if a risk assessment indicates this is by the glove manufacturer, check otective properties. It should be naterial may be different for different sisting of several substances, the
Body protection	: Personal protective equipment for the body should performed and the risks involved and should be ap handling this product. When there is a risk of igniti static protective clothing. For the greatest protection should include anti-static overalls, boots and gloves	proved by a specialist before ion from static electricity, wear anti- on from static discharges, clothing
Other skin protection	: Appropriate footwear and any additional skin prote- based on the task being performed and the risks in specialist before handling this product.	
Respiratory protection	: Based on the hazard and potential for exposure, se appropriate standard or certification. Respirators r respiratory protection program to ensure proper fitt aspects of use.	nust be used according to a

Section 9. Physical and chemical properties

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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 89 (butyl acetate = 1)
Evaporation rate	: 89 (butyl acetate = 1)
Evaporation rate Flammability Lower and upper explosion	 89 (butyl acetate = 1) Flammable aerosol. Lower: 1.1%
Evaporation rate Flammability Lower and upper explosion limit/flammability limit	 89 (butyl acetate = 1) Flammable aerosol. Lower: 1.1% Upper: 57%
Evaporation rate Flammability Lower and upper explosion limit/flammability limit Vapor pressure	 89 (butyl acetate = 1) Flammable aerosol. Lower: 1.1% Upper: 57% 101.3 kPa (760 mm Hg)

	Media		Result	
	cold water		Not soluble	
Partition coefficient: n- : Not octanol/water		:	Not applicable.	
Αι	Auto-ignition temperature : Not		Not available.	
De	Decomposition temperature : Not		available.	
Vi	Viscosity : Kin		Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)	
M	olecular weight	:	Not applicable.	
<u>Ae</u>	erosol product			
1	ype of aerosol	:	Spray	
ŀ	leat of combustion	:	24.914 kJ/g	

Section 10. Stability and reactivity

2397 KRYLON® Rust	Converting Primer SHW-85-NA-GHS-US
Date of issue/Date of revision	: 2/5/2024 Date of previous issue : 9/22/2023 Version : 8.01 9/10
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: No specific data.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Dimethyl Ether	LC50 Inhalation Gas.	Rat	164000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	309 g/m ³	4 hours
Acetone	LD50 Oral	Rat	5800 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
5	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
Formic Acid	LC50 Inhalation Vapor	Rat	7400 mg/m ³	4 hours
	LD50 Oral	Rat	730 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Eyes - Severe irritant	Rabbit	-	mg 20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	mg 24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Formic Acid	Eyes - Severe irritant	Rabbit	-	122 mg	-
	Skin - Mild irritant	Rabbit	-	610 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

ſ	Date of issue/Date	e of revision	: 2/5/2024	Date of previous issue	: 9/22/2023	Version	: 8.01	10/16
	2397	KRYLON® Rust Conv	erting Primer			SHW-85-	NA-GHS-US	

Section 11. Toxicological information

Name		Route of exposure	Target organs
Acetone	Category 2	-	-

Aspiration hazard

Not available.

2397

KRYLON® Rust Converting Primer

Teratogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
General	: May cause damage to organs through prolonged or repeated exposure.
Not available.	
Potential delayed effects Potential chronic health ef	
effects	: Not available.
<u>Long term exposure</u> Potential immediate	: Not available.
Potential delayed effects	: Not available.
Potential immediate effects	: Not available.
Short term exposure	
Delaved and immediate ef	cts and also chronic effects from short and long term exposure
Ingestion	: No specific data.
	irritation redness
Skin contact	unconsciousness : Adverse symptoms may include the following:
	drowsiness/fatigue dizziness/vertigo
	nausea or vomiting headache
	coughing
innalation	: Adverse symptoms may include the following: respiratory tract irritation
nhalation	redness
	pain or irritation watering
Eye contact	: Adverse symptoms may include the following:
Symptoms related to the p	vsical, chemical and toxicological characteristics
Ingestion	: Can cause central nervous system (CNS) depression.
Skin contact	: Causes skin irritation.
Indiation	dizziness. May cause respiratory irritation.
Eye contact Inhalation	 Causes serious eye irritation. Can cause central nervous system (CNS) depression. May cause drowsiness o
Potential acute health effe	—
routes of exposure	

11/16

SHW-85-NA-GHS-US

Section 11. Toxicological information

Developmental effects

Fertility effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates				
Route	ATE value			
	4857.49 mg/kg 24.3 mg/l			

Section 12. Ecological information

<u>Toxicity</u>						
Product/ingredient name	Result	Species	Exposure			
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours			
	Acute EC50 23.5 mg/l Fresh water	Daphnia - Daphnia magna	48 hours			
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - <i>Acartia tonsa -</i> Copepodid	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 - <i>Daphnia magna</i> - Neonate	21 days			
	Chronic NOEC 5 µg/l Marine water	Fish - <i>Gasterosteus aculeatus</i> - Larvae	42 days			
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours			
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours			
	Acute LC50 1250 ppm Marine water	Fish - Menidia beryllina	96 hours			
Formic Acid	Acute EC50 151200 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours			
	Acute LC50 80000 to 90000 µg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours			

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
2-Butoxyethanol	-	-	Readily

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>

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

Other adverse effects

: No known significant effects or critical hazards.

Date of issue/Date	of revision	: 2/5/2024	Date of previous issue	: 9/22/2023	Version	: 8.01	12/16
2397	KRYLON® Rust Conve	erting Primer			SHW-85-	NA-GHS-US	

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	2.1	2.1	2.1	2.1	2.1
hazard class(es)	running ess				
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).	-		Emergency schedules U
	ERG No.	ERG No.	ERG No.		
	126 Dependent upon container size, this product may ship under	126 Dependent upon container size, this product may ship under	126 Dependent upon container size, this product may ship under	Dependent upon container size, this product may ship under	Dependent upon container size, this product may ship unde
	the Limited Quantity shipping exception.	the Limited Quantity shipping exception.	the Limited Quantity shipping exception.	the Limited Quantity shipping exception.	the Limited Quantity shipping exception.

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.

Section 14. Transport information

Transport in bulk according : 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 : Australia inventory (AIIC): Not determined. 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.

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 -	On basis of test data	
GASES UNDER PRESSUR		Calculation method
SKIN CORROSION/IRRITA		Calculation method
	YE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGA irritation) - Category 3	N TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
SPECIFIC TARGET ORGA Category 3	N TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
	N TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
<u>History</u>		
Date of printing	: 2/5/2024	
Date of issue/Date of revision	: 2/5/2024	
Date of previous issue	: 9/22/2023	
Version	: 8.01	
Key to abbreviations	ind Labelling of Chemicals icient n of Pollution From Ships, 1973 e pollution)	

V 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.

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