SAFETY DATA SHEET

6990

Section 1. Identification

Product name	: TOUGH COAT® Advanced Red Oxide Primer
Product code	: 6990
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 Prospect Avenue NW
	Cleveland, OH 44115
Emergency telephone number of the company	: US/Canada: (800) 424-9300 Mexico: CHEMTREC Mexico 800-681-9531. Available 24 hours and 365 days per year
Product Information Telephone Number	: US/Canada: (800) 247-3266 Mexico: Not Available
Regulatory Information Telephone Number	: US/Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US/Canada: (800) 424-9300 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 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 1 ASPIRATION HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 16.1% (oral), 17.2% (dermal), 26.9% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Date of issue/Date	of revision	: 6/24/2022	Date of previous issue	: 1/20/2022	Version : 20	1/20
6990	TOUGH COAT® Adva Red Oxide Primer	nced			SHW-85-NA-GHS-US	

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 respiratory irritation.
	May cause drowsiness or dizziness.
	Suspected of causing cancer.
	Suspected of damaging fertility or the unborn child.
	Causes damage to organs through prolonged or repeated exposure. (lungs)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. Do not eat, drink or smoke when using this product. 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. FOR INDUSTRIAL USE ONLY. 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	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

Substance/mixture	: 1	Mixture
Other means of	: 1	Not available.
identification		

CAS number/other identifiers

Ingredient r	name			% by weight	CAS number	
Acetone				≥25 - ≤50	67-64-1	
Propane				≥10 - ≤25	74-98-6	
Ethylbenzen	e			≤10	100-41-4	
Dimethyl Ca	Irbonate			≤10	616-38-6	
Butane				≤10	106-97-8	
Talc			≤10	14807-96-6		
Iron Oxide				≤3	1309-37-1	
2-Methyl-1-p	propanol			<3	78-83-1	
	Hydrocarbon Solv	vent		≤3	64742-89-8	
Date of issue/D	Date of revision	: 6/24/2022	Date of previous issue	: 1/20/2022	Version : 20	2/20
6990	TOUGH COAT® A Red Oxide Primer				SHW-85-NA-GHS-US	

Section 3. Composition/information on ingredients

≤3	64742-49-0
≤2.8	68410-97-9
<1	1330-20-7
≤0.3	142-82-5
≤0.3	111-65-9
	≤2.8 <1 ≤0.3

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 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. 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 effect	<u>ets</u>
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/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation

redness

watering

Section 4. First aid measures

mediately if large
suitable training. If it is r an appropriate mask or e person providing aid to

Section 5. Fire-fig	hting measures					
Extinguishing media						
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fir	e.				
Unsuitable extinguishing media	: None known.					
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may creat a fire or if heated, a pressure increase will occur and the or risk of a subsequent explosion. Gas may accumulate in le a considerable distance to a source of ignition and flash b Bursting aerosol containers may be propelled from a fire a	container may burst, with the ow or confined areas or travel ack, causing fire or explosion.				
Hazardous thermal decomposition products	: Decomposition products may include the following materia carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides	als:				
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from t there is a fire. No action shall be taken involving any pers training. Move containers from fire area if this can be don spray to keep fire-exposed containers cool.	onal risk or without suitable				
Date of issue/Date of revision	: 6/24/2022 Date of previous issue : 1/20/2022	Version : 20 4/2				
6990 TOUGH COAT® Red Oxide Prime		SHW-85-NA-GHS-US				

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal	precautions,	protective	equipme	ent and	emerge	ncy	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	nt	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.

Date of issue/Date	of revision	: 6/24/2022	Date of previous issue	: 1/20/2022	Version	: 20	5/20
6990	TOUGH COAT® Advand Red Oxide Primer	ced			SHW-85-I	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
Acetone	67-64-1	ACGIH TLV (United States, 1/2021). 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, 1/2021). Oxygen Depletion [Asphyxiant]. Explosive potential
Ethylbenzene	100-41-4	ACGIH TLV (United States, 1/2021). 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.
Dimethyl Carbonate Butane	616-38-6 106-97-8	None. NIOSH REL (United States, 10/2020). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2021). Explosive potential. STEL: 1000 ppm 15 minutes.
Talc	14807-96-6	 NIOSH REL (United States, 10/2020). TWA: 2 mg/m³ 10 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2021). TWA: 2 mg/m³ 8 hours. Form: Respirable
Iron Oxide	1309-37-1	fraction NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ , (as Fe) 10 hours. Form: Dust and fumes OSHA PEL (United States, 5/2018).
ate of issue/Date of revision : 6/24/2022	Date of previous issue	: 1/20/2022 Version : 20 6/20
290 TOUGH COAT® Advanced Red Oxide Primer		SHW-85-NA-GHS-US

Section 6. Exposure controls	personal prot	
		TWA: 10 mg/m ³ 8 hours. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2021). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
2-Methyl-1-propanol	78-83-1	ACGIH TLV (United States, 1/2021). TWA: 50 ppm 8 hours. TWA: 152 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 50 ppm 10 hours. TWA: 150 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 300 mg/m ³ 8 hours.
Lt. Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Xylene, mixed isomers	64742-89-8 64742-49-0 68410-97-9 1330-20-7	None. None. None. ACGIH TLV (United States, 1/2021). 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.
Heptane	142-82-5	ACGIH TLV (United States, 1/2021). TWA: 400 ppm 8 hours. TWA: 1640 mg/m ³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 2050 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2020). TWA: 85 ppm 10 hours. TWA: 350 mg/m ³ 10 hours. CEIL: 440 ppm 15 minutes. CEIL: 440 ppm 15 minutes. CEIL: 1800 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 500 ppm 8 hours. TWA: 2000 mg/m ³ 8 hours.
Octane	111-65-9	 NIOSH REL (United States, 10/2020). TWA: 75 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 385 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes. ACGIH TLV (United States, 1/2021). TWA: 300 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 500 ppm 8 hours. TWA: 2350 mg/m³ 8 hours.

Occupational exposure limits (Canada)

: 6/24/2022 Date of previous issue

Ingredient name	CAS #	Exposure limits
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, 6/2021). 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, 6/2021). TWAEV: 500 ppm 8 hours. STEL: 500 ppm 8 hours. STEL: 500 ppm 8 hours. STEL: 500 ppm 8 hours. STEV: 1190 mg/m³ 8 hours. STEV: 12380 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, 6/2021). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2021). Oxygen Depletion [Asphyxiant]. Explosive potential.
		CA Ontario Provincial (Canada, 6/2019). Oxygen Depletion [Asphyxiant]. Explosive potential.
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, 6/2021). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes.
		TWA: 100 ppm 8 hours.

		CA Quebec Provincial (Canada, 6/2021). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2021). Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). Explosive potential. STEL: 1000 ppm 15 minutes.
talc (none asbestiform)	14807-96-6	 CA British Columbia Provincial (Canada, 6/2021). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2021). TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m³ 8 hours. Form: respirable fraction
Isobutyl alcohol	78-83-1	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 152 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 50 ppm 8 hours. TWAEV: 50 ppm 8 hours. TWAEV: 152 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Xylene	1330-20-7	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). TWAEV: 100 ppm 8 hours. TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours.
Date of issue/Date of revision : 6/24/2022 6990 TOUGH COAT® Advanced Red Oxide Primer Red Oxide Primer	Date of previous issue	: 1/20/2022 Version : 20 9/20 SHW-85-NA-GHS-US

STEV: 150 ppm 15 minutes.
STEV: 651 mg/m ³ 15 minutes.
CA Ontario Provincial (Canada, 6/2019).
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.

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.	
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.	
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
2-methylpropan-1-ol	78-83-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.	

Appropriate engineering 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 meas	<u>ures</u>
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.

Date of issue/Date	of revision	: 6/24/2022	Date of previous issue	: 1/20/2022
6990	TOUGH COAT® Adva Red Oxide Primer	nced		

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.

<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, initial boiling point, and boiling range	Not available.	
Flash point	Closed cup: -29°C (-20.2°F) [Pensky-Martens Clo	sed Cup]
Evaporation rate	5.6 (butyl acetate = 1)	
Flammability	Not available.	
Lower and upper explosion limit/flammability limit	Lower: 0.9% Upper: 12.8%	
Vapor pressure	101.3 kPa (760 mm Hg)	
Relative vapor density	1.55 [Air = 1]	
Relative density	0.82	
Solubility	Not available.	
Partition coefficient: n- octanol/water	Not applicable.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (40°C (104°F)): <20.5 mm ² /s (<20.5 cs	St)
Molecular weight	Not applicable.	
Aerosol product		
Type of aerosol	Spray	
Heat of combustion	27.94 kJ/g	

Section 10. Stability and reactivity

	5
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
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Dimethyl Carbonate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Light Aliphatic Hydrocarbon	LD50 Oral	Rat	5.17 g/kg	-
Solvent				
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m ³	4 hours
Octane	LC50 Inhalation Gas.	Rat	25260 ppm	4 hours
	LC50 Inhalation Vapor	Rat	118 g/m³	4 hours

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 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
Talc	Skin - Mild irritant	Human	-	mg 72 hours 300 ug l	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
Date of issue/Date of revision	: 6/24/2022 Date of previ	ous issue	: 1/20/2022	Version	:20 12/20

Section 11. Toxicological information

		Rat Rabbit		mg 8 hours 60 uL 24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

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

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propane	Category 3	_	Respiratory tract
ropuno	Subgery 6		irritation
	Category 3		Narcotic effects
Ethylbenzene	Category 3	_	Respiratory tract
	categoly c		irritation
	Category 3		Narcotic effects
Butane	Category 3	-	Respiratory tract
	3,1		irritation
	Category 3		Narcotic effects
2-Methyl-1-propanol	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract
			irritation
Heptane	Category 3	-	Respiratory tract
te of issue/Date of revision : 6/24/2022 Date of	f previous issue : 1/2	0/2022	Version : 20 1
90 TOUGH COAT® Advanced			SHW-85-NA-GHS-US

Section 11. Toxicological information

Category 3 Category 3	-	irritation Narcotic effects Respiratory tract irritation
Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 2	-	-
Propane	Category 2	-	-
Ethylbenzene	Category 2	-	-
Butane	Category 2	-	-
Talc	Category 1	inhalation	lungs
2-Methyl-1-propanol	Category 2	-	-
Lt. Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Heptane	Category 2	-	-
Octane	Category 2	-	-

Aspiration hazard

Name	Result
EthylbenzeneButaneLt. Aliphatic Hydrocarbon SolventLight Aliphatic Hydrocarbon SolventLight Aliphatic Hydrocarbon SolventXylene, mixed isomers	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Octane	ASPIRATION HAZARD - Category 1

Information on the likely	: Not available.
routes of exposure	

Potential acute health effect	<u>xts</u>
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.

Symptoms related to the physical, chemical and toxicological characteristics						
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness					

Date of is	ssue/Date of revision	: 6/24/2022	Date of previous issue	: 1/20/2022
6990	TOUGH COAT® A Red Oxide Primer	dvanced		

Section 11. Toxicological information

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
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
<u>Short term exposure</u>	

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	ifects
Not available.	
General	: Causes 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	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	26649.21 mg/kg 186654.89 mg/kg 82.57 mg/l

Date of issue/Date	of revision	: 6/24/2022
6990	TOUGH COAT® Advar	iced
	Red Oxide Primer	

Date of previous issue

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours 🥄
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa -	48 hours
		Copepodid	
	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 - 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 - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
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 - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Methyl-1-propanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
5 1 1	Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
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
Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily
Ethylbenzene	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high	
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high	
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high	
Xylene, mixed isomers	-	8.1 to 25.9	low	
Heptane	-	552	high	
Octane	-	198.7	low	

Mobility in soil

Date of issue/Date	of revision	: 6/24/2022	Date of previous issue	: 1/20/2022	Version	: 20	16/20
6990	TOUGH COAT® Adva Red Oxide Primer	nced			SHW-85-I	NA-GHS-US	

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

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	- Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). 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.

: 6/24/2022

Section 14. Transport information

Special precautions for user	:	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.
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.

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

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

: 6/24/2022

Section 16. Other information

P		
	Justification	
FLAMMABLE AEROSOLS	On basis of test data	
GASES UNDER PRESSUR	Calculation method	
SERIOUS EYE DAMAGE/	Calculation method	
CARCINOGENICITY - Cate	Calculation method	
TOXIC TO REPRODUCTIO	Calculation method	
SPECIFIC TARGET ORGA irritation) - Category 3	Calculation method	
SPECIFIC TARGET ORGA	Calculation method	
Category 3		
SPECIFIC TARGET ORGA	Calculation method	
ASPIRATION HAZARD - C	Calculation method	
History		1
<u>History</u>		
Date of printing	: 6/24/2022	
Date of issue/Date of	: 6/24/2022	
revision		
Date of previous issue	: 1/20/2022	
Version	: 20	
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 		

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.

Date of issu	: 6/2	
6990	TOUGH COAT® A	
	Red Oxide Primer	

: 6/24/2022 Date of previous issue

Date of issue	/Date of revision	: 6/2
6990	TOUGH COAT® / Red Oxide Primer	

: 6/24/2022 Date of previous issue