# SAFETY DATA SHEET

#### E41N1

## **Section 1. Identification**

Product name : KROMIK® Metal Primer

Red Oxide

Product code : E41N1

Other means of

identification

: Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY

101 W. Prospect Avenue Cleveland, OH 44115

National contact : Sherwin-Williams Canada Inc.

180 Brunel Road

Mississauga, Ontario L4Z 1T5 Canada

Emergency telephone number of the company

: US / Canada: (216) 566-2917

Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number

: US / Canada: (800) 524-5979

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 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

## Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION (Fertility) - 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) (lungs) - Category 1

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 30.2% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 30.2% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30.

2%

GHS label elements
Hazard pictograms





Signal word : Danger

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 91/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

## Section 2. Hazards identification

#### **Hazard statements**

Flammable liquid and vapor.

May cause an allergic skin reaction.

May cause cancer.

Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness.

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. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

### **Storage Disposal**

Store locked up. Store in a well-ventilated place. Keep cool.

: 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. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure.

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

### 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

: Mixture

Other means of identification

: Not available.

**CAS** number/other identifiers

2/16 Date of issue/Date of revision : 10/30/2018 Date of previous issue : 10/10/2018 Version: 9 E41N1 KROMIK® Metal Primer SHW-85-NA-GHS-CA

# Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Talc	25.21	14807-96-6
Light Aliphatic Hydrocarbon	24	64742-47-8
Zinc Oxide	4.57	1314-13-2
Iron Oxide	4.36	1309-37-1
Methyl Ethyl Ketoxime	0.41	96-29-7
Crystalline Silica, respirable powder	0.31	14808-60-7
Hydrotreated Heavy Petroleum Naphtha	0.31	64742-48-9
Zirconium 2-Ethylhexanoate	0.16	22464-99-9
Hydrotreated Heavy Petroleum Naphtha	0.13	64742-48-9
Cobalt 2-Ethylhexanoate	0.13	136-52-7
Med. Aliphatic Hydrocarbon Solvent	0.1	64742-88-7

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health 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** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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** 

: No known significant effects or critical hazards.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact** 

: May cause an allergic skin reaction.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

 Date of issue/Date of revision
 : 10/30/2018
 Date of previous issue
 : 10/10/2018
 Version
 : 9
 3/16

 E41N1
 KROMIK® Metal Primer
 SHW-85-NA-GHS-CA

 Red Oxide
 Red Oxide

## Section 4. First aid measures

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:

irritation redness

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 medical attention and special treatment needed, if necessary

Notes to physician

**Specific treatments** 

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

qua

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides

Special protective actions for fire-fighters

Red Oxide

: 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.

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 94/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

## 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 equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

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

**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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### 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 : 10/30/2018 5/16 Date of previous issue : 10/10/2018 Version: 9 E41N1

KROMIK® Metal Primer Red Oxide

# Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. 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	Exposure limits
Talc	NIOSH REL (United States, 10/2016).  TWA: 2 mg/m³ 10 hours. Form: Respirable fraction  ACGIH TLV (United States, 3/2017).  TWA: 2 mg/m³ 8 hours. Form: Respirable
Light Aliphatic Hydrocarbon	fraction  ACGIH TLV (United States, 3/2017).  Absorbed through skin.  TWA: 200 mg/m³, (as total hydrocarbon
Zinc Oxide	vapor) 8 hours.  NIOSH REL (United States, 10/2016).  CEIL: 15 mg/m³ Form: Dust TWA: 5 mg/m³ 10 hours. Form: Dust and fumes  STEL: 10 mg/m³ 15 minutes. Form: Fume OSHA PEL (United States, 6/2016).  TWA: 5 mg/m³ 8 hours. Form: Fume TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2017).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 15 minutes. Form:
Iron Oxide	NIOSH REL (United States, 10/2016).  TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust and fumes  OSHA PEL (United States, 6/2016).  TWA: 10 mg/m³ 8 hours.  ACGIH TLV (United States, 3/2017).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
Methyl Ethyl Ketoxime	AIHA WEEL (United States, 10/2011). Skin sensitizer. TWA: 10 ppm 8 hours.
Crystalline Silica, respirable powder	OSHA PEL Z3 (United States, 6/2016).  TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable  TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable  OSHA PEL (United States, 6/2016).  TWA: 50 μg/m³ 8 hours. Form: Respirable dust  ACGIH TLV (United States, 3/2017).  TWA: 0.025 mg/m³ 8 hours. Form:

Date of issue/Date of revision 6/16 : 10/30/2018 Date of previous issue : 10/10/2018 Version: 9 E41N1 KROMIK® Metal Primer SHW-85-NA-GHS-CA

## Section 8. Exposure controls/personal protection

NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m<sup>3</sup> 10 hours. Form: respirable dust Hydrotreated Heavy Petroleum Naphtha None. Zirconium 2-Ethylhexanoate ACGIH TLV (United States, 3/2017).

TWA: 5 mg/m<sup>3</sup>, (as Zr) 8 hours. STEL: 10 mg/m³, (as Zr) 15 minutes. NIOSH REL (United States, 10/2016). TWA: 5 mg/m³, (as Zr) 10 hours. STEL: 10 mg/m³, (as Zr) 15 minutes.

OSHA PEL (United States, 6/2016). TWA: 5 mg/m<sup>3</sup>, (as Zr) 8 hours. Hydrotreated Heavy Petroleum Naphtha

Cobalt 2-Ethylhexanoate ACGIH TLV (United States, 3/2017). TWA: 0.02 mg/m³, (as Co) 8 hours. Med. Aliphatic Hydrocarbon Solvent OSHA PEL (United States, 6/2016).

TWA: 100 ppm 8 hours. TWA: 400 mg/m<sup>3</sup> 8 hours.

None.

Respirable fraction

#### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	CA British Columbia Provincial (Canada, 6/2017). Absorbed through skin.  TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.  CA Alberta Provincial (Canada, 4/2009).  Absorbed through skin.  8 hrs OEL: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.  CA Ontario Provincial (Canada, 7/2015).  Absorbed through skin.  TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hours.
Zinc Oxide	CA Alberta Provincial (Canada, 4/2009).  8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form: Respirable CA British Columbia Provincial (Canada, 6/2017).  TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable CA Ontario Provincial (Canada, 7/2015).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction.  STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction. CA Quebec Provincial (Canada, 1/2014).  TWAEV: 5 mg/m³ 8 hours. Form: fume STEV: 10 mg/m³ 15 minutes. Form: fume CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 10 mg/m³ 15 minutes. Form: respirable dust and fume TWA: 2 mg/m³ 8 hours. Form: respirable dust and fume
Methyl Ethyl Ketoxime	AIHA WEEL (United States, 10/2011). Skin

7/16 Date of issue/Date of revision :10/10/2018 : 10/30/2018 Date of previous issue Version: 9 E41N1 **KROMIK®** Metal Primer SHW-85-NA-GHS-CA

# Section 8. Exposure controls/personal protection

	sensitizer.
Zina anima O Ette thamas a ta	TWA: 10 ppm 8 hours.
Zirconium 2-Ethylhexanoate	CA Alberta Provincial (Canada, 4/2009).
	8 hrs OEL: 5 mg/m³, (as Zr) 8 hours.
	15 min OEL: 10 mg/m³, (as Zr) 15 minutes.
	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 5 mg/m³, (as Zr) 8 hours.
	STEL: 10 mg/m³, (as Zr) 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 5 mg/m³, (as Zr) 8 hours.
	STEV: 10 mg/m³, (as Zr) 15 minutes.
	CA Ontario Provincial (Canada, 7/2015).
	STEL: 10 mg/m³, (as Zr) 15 minutes.
	TWA: 5 mg/m³, (as Zr) 8 hours.
Cobalt 2-Ethylhexanoate	CA Ontario Provincial (Canada, 7/2015).
	TWA: 0.02 mg/m³, (as Co) 8 hours. Form:
	Inorganic
	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 0.02 mg/m³, (as Co) 8 hours.
	CA Quebec Provincial (Canada, 1/2014).
	Skin sensitizer.
	TWAEV: 0.02 mg/m³, (as Co) 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.06 mg/m³, (measured as Co) 15
	minutes.
	TWA: 0.02 mg/m³, (measured as Co) 8
	hours.

#### Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours.
Zinc Oxide	NOM-010-STPS-2014 (Mexico, 4/2016).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction  STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction
Zirconium 2-Ethylhexanoate	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m³, (as Zr) 8 hours. STEL: 10 mg/m³, (as Zr) 15 minutes.
Cobalt 2-Ethylhexanoate	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.02 mg/m³, (as Co) 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

Red Oxide

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 98/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

## Section 8. Exposure controls/personal protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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: safety glasses with sideshields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### **Respiratory protection**

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

### **Appearance**

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point/boiling range : 148°C (298.4°F)

Flash point : Closed cup: 46°C (114.8°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 0.13 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 1% Upper: 6%

Vapor pressure : 0.17 kPa (1.27 mm Hg) [at 20°C]

Vapor density : 5 [Air = 1] Relative density : 1.33

**Solubility** : Not available.

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 99/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

## Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

**Viscosity** 

: Not available.

**Auto-ignition temperature** 

: Not available.: Not available.

**Decomposition temperature** 

: Kinematic (40°C (104°F)): <0.205 cm<sup>2</sup>/s (<20.5 cSt)

**Molecular weight** 

Not applicable.

**Aerosol product** 

**Heat of combustion** : 10.532 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). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

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
Methyl Ethyl Ketoxime	LD50 Oral	Rat	930 mg/kg	-
Hydrotreated Heavy Petroleum Naphtha	LC50 Inhalation Vapor	Rat	8500 mg/m³	4 hours
·	LD50 Oral	Rat	>6 g/kg	-
Zirconium 2-Ethylhexanoate	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	>5 g/kg	-
Hydrotreated Heavy	LC50 Inhalation Vapor	Rat	8500 mg/m <sup>3</sup>	4 hours
Petroleum Naphtha	·			
•	LD50 Oral	Rat	>6 g/kg	-
Cobalt 2-Ethylhexanoate	LD50 Dermal	Rabbit	>5 g/kg	-
-	LD50 Oral	Rat	1.22 g/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Talc	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Methyl Ethyl Ketoxime	Eyes - Severe irritant	Rabbit	-	100 microliters	-

#### **Sensitization**

Date of issue/Date of revision : 10/30/2018 Date of previous issue : 10/10/2018 Version : 9 10/16

E41N1 KROMIK® Metal Primer

Red Oxide

SHW-85-NA-GHS-CA

# Section 11. Toxicological information

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Talc	-	3	-
Iron Oxide	_	3	-
Crystalline Silica, respirable	_	1	Known to be a human carcinogen.
powder			
Cobalt 2-Ethylhexanoate	-	2B	Reasonably anticipated to be a human carcinogen.

## **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

## **Specific target organ toxicity (single exposure)**

Name	Category	Route of exposure	Target organs
Light Aliphatic Hydrocarbon	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hydrotreated Heavy Petroleum Naphtha	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hydrotreated Heavy Petroleum Naphtha	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Med. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

## Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	Inhalation	lungs
Light Aliphatic Hydrocarbon	Category 2	Not determined	Not determined
Crystalline Silica, respirable powder	Category 1	Inhalation	Not determined
Hydrotreated Heavy Petroleum Naphtha	Category 2	Not determined	Not determined
Hydrotreated Heavy Petroleum Naphtha	Category 2	Not determined	Not determined
Med. Aliphatic Hydrocarbon Solvent	Category 1	Not determined	Not determined

## **Aspiration hazard**

Name	Result
Light Aliphatic Hydrocarbon	ASPIRATION HAZARD - Category 1
Hydrotreated Heavy Petroleum Naphtha	ASPIRATION HAZARD - Category 1
Hydrotreated Heavy Petroleum Naphtha	ASPIRATION HAZARD - Category 1
Med. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1

 Date of issue/Date of revision
 : 10/30/2018
 Date of previous issue
 : 10/10/2018
 Version
 : 9
 11/16

 E41N1
 KROMIK® Metal Primer
 SHW-85-NA-GHS-CA

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact**: May cause an allergic skin reaction.

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 : No specific data.

**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:

irritation redness

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 effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General: Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity**: Suspected of damaging the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Date of issue/Date of revision : 10/30/2018 Date of previous issue : 10/10/2018 Version : 9 12/16

E41N1 KROMIK® Metal Primer

Red Oxide

SHW-85-NA-GHS-CA

Not available.

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Light Aliphatic Hydrocarbon Zinc Oxide	Acute LC50 2200 μg/l Fresh water Acute IC50 1.85 mg/l Marine water Acute IC50 46 μg/l Fresh water	Fish - Lepomis macrochirus Algae - Skeletonema costatum Algae - Pseudokirchneriella subcapitata - Exponential growth phase	4 days 96 hours 72 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Methyl Ethyl Ketoxime	Acute LC50 1.1 ppm Fresh water Acute LC50 843000 µg/l Fresh water	Fish - Oncorhynchus mykiss Fish - Pimephales promelas	96 hours 96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrotreated Heavy Petroleum Naphtha	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Zinc Oxide	-	60960	high
Methyl Ethyl Ketoxime	-	2.5 to 5.8	low
Hydrotreated Heavy	-	10 to 2500	high
Petroleum Naphtha			_
Zirconium 2-Ethylhexanoate	-	2.96	low
Hydrotreated Heavy	-	10 to 2500	high
Petroleum Naphtha			
Cobalt 2-Ethylhexanoate	-	15600	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### **Disposal methods**

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 913/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

## Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT. Marine pollutant (Zinc Oxide)
Transport hazard class(es)	3	3	3	3	3
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	Yes.
Additional information	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).		The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-E, S-E
	ERG No.	ERG No.	ERG No.		
	128	128	128		

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 to Annex II of MARPOL and the IBC Code

: Not available.

Proper shipping name : Not available.

Ship type : Not available.

Pollution category : Not available.

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 914/16E41N1KROMIK® Metal PrimerSHW-85-NA-GHS-CA

RROMIK® Metal Prime
Red Oxide

## Section 15. Regulatory information

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

#### **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.

Malaysia Inventory (EHS Register): 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

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category	Calculation method
1	
ASPIRATION HAZARD - Category 1	Calculation method

#### **History**

Date of printing : 10/30/2018

Date of issue/Date of : 10/30/2018

revision

Date of previous issue : 10/10/2018

Version : 9

Date of issue/Date of revision: 10/30/2018Date of previous issue: 10/10/2018Version: 915/16E41N1KROMIK® Metal Primer<br/>Red OxideSHW-85-NA-GHS-CA

## Section 16. Other information

### **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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

#### **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.

16/16 Date of issue/Date of revision : 10/30/2018 Date of previous issue : 10/10/2018 Version: 9 E41N1 **KROMIK® Metal Primer**