SAFETY DATA SHEET

B59TX832

Section 1. Identification

Product name : HEAT-FLEX® Hi-Temp 1000HA

Medium Color

Product code : B59TX832
Other means of : Not available.

identification

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: (800) 424-9300

Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 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 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 4 GERM CELL MUTAGENICITY - Category 2

CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

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 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1%

(oral), 6% (dermal), 3% (inhalation)

GHS label elements

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Section 2. Hazards identification

Hazard pictograms









Signal word

Danger

Hazard statements

Flammable liquid and vapor.

Toxic if swallowed. Harmful if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage

Disposal

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep

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 PROFESSIONAL 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.

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

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: None known.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Methyl n-Amyl Ketone	25	110-43-0
Cadmium Red	2	12626-36-7
Copper Chromite Black Spinel	2	68186-91-4
Chromium Oxide	2	1308-38-9
Cadmium Yellow	2	-
Titanium Dioxide	2	13463-67-7
Crystalline Silica, respirable powder	1.05	14808-60-7
Barium Metaborate	1	13701-59-2

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. 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

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

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Skin contact

: No known significant effects or critical hazards.

Ingestion

: Toxic if swallowed. Can cause central nervous system (CNS) depression.

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Section 4. First aid measures

Over-exposure signs/symptoms

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:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

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

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Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Remark

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

: Flammable liquid.

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. Do not breathe 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

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

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Put on appropriate personal protective equipment (see Section 8). 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 ingest. 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.

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Section 7. Handling and storage

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.

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	CAS#	Exposure limits
Methyl n-Amyl Ketone	110-43-0	ACGIH TLV (United States, 1/2023). TWA: 50 ppm 8 hours. TWA: 233 mg/m³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 465 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 465 mg/m³ 8 hours.
Cadmium Red	12626-36-7	ACGIH TLV (United States, 1/2023). [Selenium and compounds as Se] TWA: 0.2 mg/m³, (as Se) 8 hours. NIOSH REL (United States, 10/2020). [selenium] TWA: 0.2 mg/m³ 10 hours. ACGIH TLV (United States, 1/2023). [Cadmium and compounds] TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable fraction OSHA PEL (United States, 5/2018). [Selenium compounds (as Se)] TWA: 0.2 mg/m³, (as Se) 8 hours.
Copper Chromite Black Spinel	68186-91-4	NIOSH REL (United States, 10/2020). [chromium (III) compounds as Cr] TWA: 0.5 mg/m³, (as Cr) 8 hours. OSHA PEL (United States, 5/2018). [Chromium (III) compounds (as Cr)] TWA: 0.5 mg/m³, (as Cr) 8 hours.
Chromium Oxide	1308-38-9	NIOSH REL (United States, 10/2020). [chromium (III) compounds as Cr] TWA: 0.5 mg/m³, (as Cr) 8 hours. ACGIH TLV (United States, 1/2023). [inorganic chromium III compounds as Cr] TWA: 0.003 mg/m³, (measured as Cr) 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018).

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Cadmium Yellow		[Chromium (III) compounds (as Cr)] TWA: 0.5 mg/m³, (as Cr) 8 hours. ACGIH TLV (United States, 1/2023). [Cadmium and compounds] TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable fraction
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles
Crystalline Silica, respirable powder	14808-60-7	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, 5/2018). [Silica, crystalline] TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 1/2023). [Silica, crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)] TWA: 0.05 mg/m³ 10 hours. Form: respirable dust
Barium Metaborate	13701-59-2	ACGIH TLV (United States, 1/2023). [Barium and soluble compounds as Ba] TWA: 0.5 mg/m³, (as Ba) 8 hours. OSHA PEL (United States, 5/2018). [Barium, soluble compounds (as Ba)] TWA: 0.5 mg/m³, (as Ba) 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Methyl n-amyl ketone	110-43-0	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 233 mg/m³ 8 hours. 8 hrs OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 25 ppm 8 hours. TWA: 115 mg/m³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 50 ppm 8 hours. TWAEV: 233 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Cadmium Red	12626-36-7	CA Alberta Provincial (Canada, 6/2018). [Cadmium compounds as Cd, respirable]

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8 hrs OEL: 0.002 mg/m³, (as Cd) 8 hours.

Form: Respirable

CA British Columbia Provincial (Canada, 6/2022). [Cadmium and compounds as Cd; Respirable1

TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable

TWA: 0.01 mg/m³, (as Cd) 8 hours.

CA Ontario Provincial (Canada, 6/2019). [Cadmium compounds as Cd]

TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable particulate matter.

CA Alberta Provincial (Canada, 6/2018). [Selenium and compounds as Se]

8 hrs OEL: 0.2 mg/m³, (as Se) 8 hours.

CA Quebec Provincial (Canada, 6/2022). [Cadmium elemental and compounds]

TWAEV: 0.025 mg/m³, (as Cd) 8 hours.

CA Ontario Provincial (Canada, 6/2019). [Selenium and compounds as Se]

TWA: 0.2 mg/m³. (as Se) 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013). [Cadmium, and compounds as Cd]

STEL: 0.006 mg/m³, (measured as Cd) 15 minutes. Form: respirable fraction

TWA: 0.002 mg/m³, (measured as Cd) 8 hours. Form: respirable fraction

STEL: 0.03 mg/m³, (measured as Cd) 15 minutes. Form: total fraction

TWA: 0.01 mg/m³, (measured as Cd) 8

hours. Form: total fraction

CA Saskatchewan Provincial (Canada, 7/2013). [Selenium and compounds as Se]

STEL: 0.6 mg/m³, (measured as Se) 15 minutes.

TWA: 0.2 mg/m³, (measured as Se) 8 hours.

CA Alberta Provincial (Canada, 6/2018). [Cadmium compounds as Cd, respirable]

8 hrs OEL: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable

CA British Columbia Provincial (Canada, 6/2022). [Cadmium and compounds as Cd; Respirable1

TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable

TWA: 0.01 mg/m³, (as Cd) 8 hours.

CA Ontario Provincial (Canada, 6/2019). [Cadmium compounds as Cd]

TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable particulate matter.

CA Quebec Provincial (Canada, 6/2022). [Cadmium elemental and compounds]

TWAEV: 0.025 mg/m³, (as Cd) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Cadmium, and compounds as Cd]

STEL: 0.006 mg/m³, (measured as Cd) 15 minutes. Form: respirable fraction

Cadmium sulfide

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		TWA: 0.002 mg/m³, (measured as Cd) 8 hours. Form: respirable fraction STEL: 0.03 mg/m³, (measured as Cd) 15 minutes. Form: total fraction TWA: 0.01 mg/m³, (measured as Cd) 8 hours. Form: total fraction
Quartz	14808-60-7	CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m³ 8 hours. Form: respirable fraction
Barium Metaborate	13701-59-2	CA Alberta Provincial (Canada, 6/2018). [Barium and soluble compounds as Ba] 8 hrs OEL: 0.5 mg/m³, (as Ba) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Barium and soluble compounds as Ba] TWA: 0.5 mg/m³, (as Ba) 8 hours. CA Quebec Provincial (Canada, 6/2022). [Barium, soluble compounds] TWAEV: 0.5 mg/m³, (as Ba) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Barium and soluble compounds as Ba] TWA: 0.5 mg/m³, (as Ba) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Barium and soluble compounds as Ba] STEL: 1.5 mg/m³, (measured as Ba) 15 minutes. TWA: 0.5 mg/m³, (measured as Ba) 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	CAS#	Exposure limits
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
Cadmium Red	12626-36-7	NOM-010-STPS-2014 (Mexico, 4/2016). [Cadmium compounds] TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable fraction NOM-010-STPS-2014 (Mexico, 4/2016). [Selenium and selenium compounds]

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Cadmium Yellow		TWA: 0.2 mg/m³, (as Se) 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016).
		[Cadmium compounds]
		TWA: 0.002 mg/m³, (as Cd) 8 hours. Form:
		Respirable fraction
Crystalline Silica, respirable powder	14808-60-7	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 0.025 mg/m ³ 8 hours. Form:
		Respirable fraction
Barium Metaborate	13701-59-2	NOM-010-STPS-2014 (Mexico, 4/2016).
		[Barium and soluble compounds]
		TWA: 0.5 mg/m³, (as Ba) 8 hours.

Biological exposure indices (United States)

Ingredient name Exposure indices		
Cadmium Red	ACGIH BEI (United States, 1/2023) [cadmium and inorganic compounds] BEI: 5 µg/g creatinine, cadmium [in urine]. Sampling time: not critical. BEI: 5 µg/l, cadmium [in blood]. Sampling time: not critical.	
Cadmium Yellow	ACGIH BEI (United States, 1/2023) [cadmium and inorganic compounds] BEI: 5 μg/g creatinine, cadmium [in urine]. Sampling time: not critical. BEI: 5 μg/l, cadmium [in blood]. Sampling time: not critical.	

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices		
Cadmium Red	Official Mexican STANDARD NOM-		
	047-SSA1-2011, Environmental Health-		
	Biological exposure indices for personnel		
	occupationally exposed to chemical		
	substances. (Mexico, 6/2012) [cadmium		
	and inorganic compounds]		
	BEI: 5 μg/l [Basal level.The determinant may		
	be present in the biological sample obtained		
	from subjects who have not been		
	occupationally exposed, at a concentration		
	that could affect the interpretation of the		
	results. These background levels are included		
	in the valu], cdmium [in blood]. Sampling time:		
	uncritical.		
	BEI: 5 µg/g creatinine [Basal level.The		
	determinant may be present in the biological		
	sample obtained from subjects who have not		
	been occupationally exposed, at a concentration that could affect the		
	interpretation of the results. These background levels are included in the valu],		
	cdmium [in urine]. Sampling time: uncritical.		
	cumum [in ume]. Samping time. unchtical.		

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Cadmium Yellow Official

Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [cadmium and inorganic compounds]

BEI: 5 µg/l [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], cdmium [in blood]. Sampling time: uncritical.

BEI: 5 µg/g creatinine [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], cdmium [in urine]. Sampling time: uncritical.

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 measures

Hygiene measures

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

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection Hand protection

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: 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.

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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

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

Appearance

Flash point

Physical state : Liquid.

Color : Not available. Odor : Not available. **Odor threshold** Not available. Hq : Not applicable. **Melting point/freezing point** : Not available. : 147°C (296.6°F)

Boiling point, initial boiling point, and boiling range

Evaporation rate : 0.33 (butyl acetate = 1)

Flammability : Flammable liquid.

Lower and upper explosion

: Lower: 1.1% limit/flammability limit Upper: 7.9%

Vapor pressure : 0.51 kPa (3.855 mm Hg)

Relative vapor density : 3.94 [Air = 1]

: 1.06 Relative density

Solubility(ies)

Media	Result
cold water	Not soluble

: Closed cup: 39°C (102.2°F) [Pensky-Martens Closed Cup]

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

Viscosity Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)

Molecular weight Not applicable.

Heat of combustion : 8.75 kJ/g

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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 n-Amyl Ketone Cadmium Yellow Barium Metaborate	LD50 Oral LD50 Oral LD50 Oral	Rat	1600 mg/kg 7080 mg/kg 3800 mg/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
Titanium Dioxide	Skin - Mild irritant	Human	-	mg 72 hours 300 ug I	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP	
Cadmium Red	+	1	-	
Copper Chromite Black	-	3	-	
Spinel				
Chromium Oxide	-	3	-	
Cadmium Yellow	+	1	Known to be a human carcinogen.	
Titanium Dioxide	-	2B	-	
Crystalline Silica, respirable powder	+	1	Known to be a human carcinogen.	

Reproductive toxicity

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Section 11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Methyl n-Amyl Ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl n-Amyl Ketone	Category 2	-	-
Cadmium Red	Category 2	-	-
Cadmium Yellow	Category 1	-	-
Crystalline Silica, respirable powder	Category 1	inhalation	-

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. 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 : Toxic if swallowed. Can cause central nervous system (CNS) depression.

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:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

: Not available. Potential delayed effects

Long term exposure

Potential immediate

: Not available.

effects

: Not available. **Potential delayed effects**

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

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

Mutagenicity : Suspected of causing genetic defects.

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : May damage fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	232.76 mg/kg
Inhalation (vapors)	15.94 mg/l
Inhalation (dusts and mists)	150 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cadmium Yellow	Acute LC50 11 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 108 μg/l Fresh water	Fish - <i>Pimephales promelas</i> - Neonate	96 hours
Titanium Dioxide Barium Metaborate	Acute LC50 >1000000 µg/l Marine water Acute EC50 20.3 ppm Fresh water Acute LC50 62 ppm Fresh water	Fish - Fundulus heteroclitus Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	96 hours 48 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl n-Amyl Ketone	-	-	Readily

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Cadmium Yellow	-	1345	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

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 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
Transport hazard class(es)	3	3	3	3	3
Packing group	III	III	Ш	III	III
Environmental hazards	No.	No.	No.	No.	No.
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	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).	-	-	Emergency schedules F-E, S- E

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Section 14. Transport information					
	liquids are not regulated as hazardous materials. 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 IMO instruments

: Not available.

Proper shipping name

: Not available.

Section 15. Regulatory information

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.)



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Section 16. Other information

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
ACUTE TOXICITY (oral) - Category 3	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
GERM CELL MUTAGENICITY - Category 2	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Category 1B	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) - Category 1	Calculation method

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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)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

ON - Officed 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

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Section 16. Other information

sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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