SAFETY DATA SHEET

B59TX832

Section 1. Identification : HEAT-FLEX® Hi-Temp 1000HA **Product name** 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. : THE SHERWIN-WILLIAMS COMPANY Manufacturer 101 W. Prospect Avenue Cleveland, OH 44115 **Emergency telephone** : US / Canada: (800) 424-9300 number of the company Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year **Product Information** : US / Canada: (800) 524-5979 Mexico: Not Available **Telephone Number Regulatory Information** : US / Canada: (216) 566-2902 Mexico: Not Available **Telephone Number** Transportation Emergency : US / Canada: (800) 424-9300 **Telephone Number** 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 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

Date of issue/Da	ate of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	1/19
B59TX832	HEAT-FLEX® Hi-	Temp 1000HA			SHW-85-NA-GHS-US	
	Medium Color					

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	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
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 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.
Hazards not otherwise classified	transfer contents to other containers for storage.None known.

Date of previous issue

: 6/12/2023

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 - ≤39	110-43-0	
Cadmium Red	≤3	12626-36-7	
Copper Chromite Black Spinel	≤3	68186-91-4	
Chromium Oxide	≤3	1308-38-9	
Cadmium Yellow	≤3	-	
Titanium Dioxide	≤3	13463-67-7	
Crystalline Silica, respirable powder	≤3	14808-60-7	
Barium Metaborate	≤3	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 necess	ary 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

Medium Color

Potential acute health eff	acts			
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. No known significant effects or critical hazards. 			
Skin contact				
Ingestion	: Toxic if swallowed. Can cause central nervous system	m (CNS) depression.		
Date of issue/Date of revision	: 9/16/2023 Date of previous issue : 6/12/2023	Version : 11 3/19		
B59TX832 HEAT-FLEX®	Hi-Temp 1000HA	SHW-85-NA-GHS-US		

Section 4. First aid measures

Over-exposure signs/symptoms

<u>Over-exposure signs</u>	
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 me	dical 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, CO ₂ , 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

Date of issue/Date	of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	4/19
B59TX832	HEAT-FLEX® Hi-Tem Medium Color	p 1000HA			SHW-85-NA-GHS-US	

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. Elemenable liquid 	
Remark	: Flammable liquid.	

Section 6. Accidental release measures

Personal precautions, protec	tive 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 co	ntainment 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). 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.

Date of issue/D	ate of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	5/19
B59TX832 HEAT-FLEX® Hi-Temp 1000HA			SHW-85-NA-GHS-US			
	Medium Color					

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.
Conditions for safe storage, including any incompatibilities	: 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)

110-43-0	ACGIH TLV (United States, 1/2023). TWA: 50 ppm 8 hours. TWA: 233 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 465 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 465 mg/m ³ 8 hours.
12626-36-7	ACGIH TLV (United States, 1/2023). [Selenium and compounds as Se] TWA: 0.2 mg/m ³ , (as Se) 8 hours. NIOSH REL (United States, 10/2020). [selenium] TWA: 0.2 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2023). [Cadmium and compounds] TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form: Respirable fraction OSHA PEL (United States, 5/2018). [Selenium compounds (as Se)] TWA: 0.2 mg/m ³ , (as Se) 8 hours.
68186-91-4	NIOSH REL (United States, 10/2020). [chromium (III) compounds as Cr] TWA: 0.5 mg/m ³ , (as Cr) 8 hours. OSHA PEL (United States, 5/2018). [Chromium (III) compounds (as Cr)] TWA: 0.5 mg/m ³ , (as Cr) 8 hours.
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).
	68186-91-4

•		
		[Chromium (III) compounds (as Cr)]
		TWA: 0.5 mg/m ³ , (as Cr) 8 hours.
Cadmium Yellow		ACGIH TLV (United States, 1/2023).
		[Cadmium and compounds]
		TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form:
		Respirable fraction
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018).
		TWA: 15 mg/m ³ 8 hours. Form: Total dust
		ACGIH TLV (United States, 1/2023).
		TWA: 2.5 mg/m ³ 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/m ³ / (%SiO2+2) 8 hours. Form:
		Respirable
		OSHA PEL (United States, 5/2018). [Silica,
		crystalline]
		TWA: 50 µg/m ³ 8 hours. Form: Respirable
		dust
		ACGIH TLV (United States, 1/2023). [Silica,
		crystalline]
		/-
		o 1
Barium Metaborate	13701-59-2	
		[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)]
Barium Metaborate	13701-59-2	TWA: 0.5 mg/m³, (as Ba) 8 hours. OSHA PEL (United States, 5/2018). [Ba

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/m ³ 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/m ³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 50 ppm 8 hours. TWAEV: 233 mg/m ³ 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]		
ate of issue/Date of revision : 9/16/2023 59TX832 HEAT-FLEX® Hi-Temp 1000HA Medium Color	Date of previous issue	: 6/12/2023 Version : 11 7/1: SHW-85-NA-GHS-US		

		•
		8 hrs OEL: 0.002 mg/m ³ , (as Cd) 8 hours.
		Form: Respirable
		CA British Columbia Provincial (Canada,
		6/2022). [Cadmium and compounds as Cd;
		Respirable]
		TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form:
		Respirable
		TWA: 0.01 mg/m ³ , (as Cd) 8 hours.
		CA Ontario Provincial (Canada, 6/2019).
		[Cadmium compounds as Cd]
		TWA: 0.002 mg/m ³ , (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/m ³ , (as Se) 8 hours.
		CA Quebec Provincial (Canada, 6/2022).
		[Cadmium elemental and compounds]
		TWAEV: 0.025 mg/m ³ , (as Cd) 8 hours.
		CA Ontario Provincial (Canada, 6/2019).
		[Selenium and compounds as Se]
		TWA: 0.2 mg/m ³ , (as Se) 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013). [Cadmium, and compounds as Cd]
		STEL: 0.006 mg/m ³ , (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/m ³ , (measured as Cd) 15
		minutes. Form: total fraction
		TWA: 0.01 mg/m ³ , (measured as Cd) 8
		hours. Form: total fraction
		CA Saskatchewan Provincial (Canada,
		7/2013). [Selenium and compounds as Se]
		STEL: 0.6 mg/m ³ , (measured as Se) 15
		S
		minutes.
		TWA: 0.2 mg/m ³ , (measured as Se) 8 hours.
Cadmium sulfide		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;
		Respirable]
		TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form:
		Respirable
		TWA: 0.01 mg/m ³ , (as Cd) 8 hours.
		CA Ontario Provincial (Canada, 6/2019).
		[Cadmium compounds as Cd]
		TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form:
		Respirable particulate matter.
		CA Quebec Provincial (Canada, 6/2022).
		[Cadmium elemental and compounds]
		TWAEV: 0.025 mg/m ³ , (as Cd) 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013). [Cadmium, and compounds as Cd]
		STEL: 0.006 mg/m ³ , (measured as Cd) 15
		o
		minutes. Form: respirable fraction
Date of issue/Date of revision	: 9/16/2023 Date of prev	ious issue : 6/12/2023 Version : 11 8/19
B59TX832 HEAT-FLEX® Hi-Ter Medium Color	np 1000HA	SHW-85-NA-GHS-US

	<u> </u>	
		TWA: 0.002 mg/m ³ , (measured as Cd) 8 hours. Form: respirable fraction STEL: 0.03 mg/m ³ , (measured as Cd) 15 minutes. Form: total fraction TWA: 0.01 mg/m ³ , (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/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m ³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m ³ 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/m ³ , (as Ba) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Barium and soluble compounds as Ba] TWA: 0.5 mg/m ³ , (as Ba) 8 hours. CA Quebec Provincial (Canada, 6/2022). [Barium, soluble compounds] TWAEV: 0.5 mg/m ³ , (as Ba) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Barium and soluble compounds as Ba] TWA: 0.5 mg/m ³ , (as Ba) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Barium and soluble compounds as Ba] STEL: 1.5 mg/m ³ , (measured as Ba) 15 minutes. TWA: 0.5 mg/m ³ , (measured as Ba) 8 hours.

Occupational exposure limits (Mexico)

	CAS #			CAS #	Exposure limit	ts		
Methyl n-Amyl Ketone Cadmium Red		110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.).		
			12626-36-7	NOM-010-STPS-2014 (Mexico, 4/2016). [Cadmium compounds] TWA: 0.002 mg/m ³ , (as Cd) 8 hours. Form: Respirable fraction NOM-010-STPS-2014 (Mexico, 4/2016). [Selenium and selenium compounds]		orm:).		
Date of issue/	Date of revision	: 9/16/2023	Date of pre	evious issue	: 6/12/2023	Version	: 11	9/19
359TX832	HEAT-FLEX® Hi-T Medium Color	emp 1000HA				SHW-85-1	NA-GHS-U	S

Cadmium Yellow		TWA: 0.2 mg/m ³ , (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 μ g/g creatinine, cadmium [in urine]. Sampling time: not critical. BEI: 5 μ g/l, cadmium [in blood]. Sampling time: not critical.			

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name Expos			Exposure indice	Exposure indices			
Cadmium Red				Official Mexican 047-SSA1-2011, I Biological expose occupationally e substances. (Me and inorganic co BEI: 5 µg/I [Basa be present in the from subjects who occupationally exp that could affect th results. These bac in the valu], cdmit uncritical. BEI: 5 µg/g creat determinant may sample obtained f been occupational concentration that interpretation of th background levels	STANDARD NOM- Environmental Healt sure indices for pers xposed to chemical xico, 6/2012) [cadmi mpounds] al level. The determina biological sample obta bave not been bosed, at a concentra ne interpretation of the ckground levels are ir um [in blood]. Samplir tinine [Basal level. The be present in the biolo from subjects who have lly exposed, at a t could affect the	onnel fum ant may ained tion e ncluded ng time: e ogical ve not valu],	
ate of issue/Date o	f revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	10/19	
	HEAT-FLEX® Hi-Temp /ledium Color	1000HA			SHW-85-NA-GHS-U	JS	

Cadmium Yellow	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 measur	es	
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 side-shields.
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.

11/19

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.

<u>Appearance</u>							
Physical state	: Liqu	id.					
Color	: Not	available.					
Odor	: Not	available.					
Odor threshold	: Not	Not available.					
рН	: Not	applicable.					
Melting point/freezing point	: Not	available.					
Boiling point, initial boiling point, and boiling range	: 147	°C (296.6°F)					
Flash point	: Clo	sed cup: 39°C (102.2°F) [Pensky-Martens Closed Cup]					
Evaporation rate	: 0.33	: 0.33 (butyl acetate = 1)					
Flammability	: Flar	: Flammable liquid.					
Lower and upper explosion limit/flammability limit		: Lower: 1.1% Upper: 7.9%					
Vapor pressure	: 0.5	kPa (3.855 mm Hg)					
Relative vapor density	: 3.94	[Air = 1]					
Relative density	: 1.06	6					
Solubility(ies)	:						
Media		Result					
cold water		Not soluble					
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	

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 Rat 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 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

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

Date of issue/Date	of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	13/19
B59TX832	HEAT-FLEX® Hi-Temp Medium Color	o 1000HA			SHW-85-NA-GHS-US	

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		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 effect		
Eye contact	No known significant effects or critical hazards.	
Inhalation	Harmful if inhaled. Can cause central nervous system (CNS) depression. May or drowsiness or dizziness. May cause respiratory irritation.	cause
Skin contact	No known significant effects or critical hazards.	
Ingestion	Toxic if swallowed. Can cause central nervous system (CNS) depression.	
Symptoms related to the p	sical, 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	

Date of issue/Date	of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version	:11	14/19
B59TX832	HEAT-FLEX® Hi-Temp Medium Color	1000HA			SHW-85-1	NA-GHS-US	

Section 11. Toxicological information

Delayed and immediate ef	fects and also chronic effects from short and long term exposure	
<u>Short term exposure</u>		
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 e	ffects	
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

Т	ox	С	ty
-			

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 - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 108 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Neonate	
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Barium Metaborate	Acute EC50 20.3 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 62 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

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

Bioaccumulative potential

Date of issue/Da	ate of revision	: 9/16/2023	Date of previous issue	: 6/12/2023	Version : 11	15/19
B59TX832	HEAT-FLEX® Hi- Medium Color	Temp 1000HA			SHW-85-NA-GHS-US	

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	ΙΑΤΑ	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	Ш	111	Ш	ш
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).	-	-	<u>Emergency</u> <u>schedules</u> F-E, S- E
	rision : 9/16/20 F-FLEX® Hi-Temp 1000HA um Color	23 Date of previous i	ssue : 6/12/202.		on : 11 16/1 /-85-NA-GHS-US

Section 14. Transport information						
	liquids are not regulated as hazardous materials.					
	<u>ERG No.</u>	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 : Not availate to IMO instruments		ilable.				

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

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

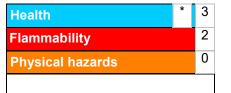
Not listed.

International lists

: Australia inventory (AIIC): Not determined. China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan Chemical Substances Inventory (TCSI): Not determined. Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

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	

<u>History</u>	
Date of printing	: 9/16/2023
Date of issue/Date of revision	: 9/16/2023
Date of previous issue	: 6/12/2023
Version	: 11
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 = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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/buver/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.