# SAFETY DATA SHEET

B59A225

## **Section 1. Identification**

**Product name** : Heat-Flex® Hi-Temp 1200

Gray

**Product code** : B59A225 Other means of Not available.

identification

: Liquid.

**Product type** 

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

**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

**Transportation Emergency Telephone Number** 

: US / Canada: (800) 424-9300

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

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

**CARCINOGENICITY - Category 2** 

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.5%

(oral), 1.5% (dermal), 1.5% (inhalation)

**GHS** label elements

**Hazard pictograms** 







Signal word Danger

Flammable liquid and vapor. **Hazard statements** 

May be fatal if swallowed and enters airways.

Causes serious eye irritation. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. (lungs)

**Precautionary statements** 

Date of issue/Date of revision : 4/19/2024 : 1/23/2024 1/19 Date of previous issue Version: 26

B59A225 Heat-Flex® Hi-Temp 1200 SHW-85-NA-GHS-US

## Section 2. Hazards identification

#### 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. Keep container tightly closed. 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 SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

# Storage 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.

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

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Not available.

: Mixture

#### **CAS** number/other identifiers

Ingredient name	% by weight	t CAS number	
Iron Oxide	≥25 - ≤50	1309-37-1	
Xylene, mixed isomers	<10	1330-20-7	
Heavy Aromatic Naphtha	≤3.8	64742-94-5	
Wollastonite	≤5	13983-17-0	
Ethylbenzene	≤3	100-41-4	
Zinc Oxide	≤3	1314-13-2	
Methyl n-Amyl Ketone	≤2.2	110-43-0	
Mica	≤3	12001-26-2	
Naphthalene	<1	91-20-3	

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 2/19

B59A225 Heat-Flex® Hi-Temp 1200

Gray

#### 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

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 unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth

with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

Skin contact : No specific data.

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

#### 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. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SHW-85-NA-GHS-US

See toxicological information (Section 11)

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 3/19

B59A225 Heat-Flex® Hi-Temp 1200

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, 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 halogenated compounds metal oxide/oxides

# 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders:

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

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

B59A225

: 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.

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 4/19

#### Section 6. Accidental release measures

#### 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. 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.

# 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
Iron Oxide	1309-37-1	NIOSH REL (United States, 10/2020).  TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust and fumes  ACGIH TLV (United States, 1/2023).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³ 8 hours. Form: Respirable fraction  TWA: 15 mg/m³ 8 hours. Form: Total dust
Xylene, mixed isomers	1330-20-7	OSHA PEL (United States, 5/2018). [Xylenes (o-, m-, p-isomers)] TWA: 100 ppm 8 hours.

Date of issue/Date of revision 5/19 : 4/19/2024 Date of previous issue : 1/23/2024 Version: 26 B59A225 SHW-85-NA-GHS-US

		<del>.</del>
		TWA: 435 mg/m³ 8 hours.  ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene]  Ototoxicant.  TWA: 20 ppm 8 hours.
Heavy Aromatic Naphtha Wollastonite	64742-94-5 13983-17-0	None.  ACGIH TLV (United States, 1/2023).  TWA: 1 mg/m³ 8 hours. Form: Inhalable
Ethylbenzene	100-41-4	fraction ACGIH TLV (United States, 1/2023). Ototoxicant.
		TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 100 ppm 10 hours.  TWA: 435 mg/m³ 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Zinc Oxide	1314-13-2	NIOSH REL (United States, 10/2020).  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, 5/2018).  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, 1/2023).  TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction
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.
Mica	12001-26-2	ACGIH TLV (United States, 1/2023).  TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction  NIOSH REL (United States, 10/2020).  TWA: 3 mg/m³ 10 hours. Form: Respirable fraction  OSHA PEL Z3 (United States, 6/2016).  TWA: 20 mppcf 8 hours.
Naphthalene	91-20-3	ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 52 mg/m³ 8 hours. NIOSH REL (United States, 10/2020).

Date of issue/Date of revision 6/19 : 4/19/2024 Date of previous issue : 1/23/2024 Version: 26 B59A225 SHW-85-NA-GHS-US

Heat-Flex® Hi-Temp 1200

# Section 8. Exposure controls/personal protection TWA: 10 ppm 10 hours. TWA: 50 mg/m³ 10 hours. STEL: 15 ppm 15 minutes. STEL: 75 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 10 ppm 8 hours. TWA: 50 mg/m³ 8 hours.

#### Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018).  [Dimethylbenzene (o,m & p isomers)]  8 hrs OEL: 100 ppm 8 hours.  15 min OEL: 651 mg/m³ 15 minutes.  15 min OEL: 150 ppm 15 minutes.  8 hrs OEL: 434 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  [Xylene (o, m & p isomers)]  TWA: 100 ppm 8 hours.  STEL: 150 ppm 15 minutes.  CA Quebec Provincial (Canada, 6/2022).  [Xylene (o-,m-,p- isomers)]  TWAEV: 100 ppm 8 hours.  TWAEV: 434 mg/m³ 8 hours.  STEV: 150 ppm 15 minutes.  STEV: 651 mg/m³ 15 minutes.  CA Ontario Provincial (Canada, 6/2019).  [Xylene (o-, m-, p-isomers)]  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  [Xylene (o, m-, p-isomers)]  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 100 ppm 8 hours.  8 hrs OEL: 434 mg/m³ 8 hours.  15 min OEL: 543 mg/m³ 15 minutes.  15 min OEL: 125 ppm 15 minutes.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 20 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 125 ppm 15 minutes.  TWA: 100 ppm 8 hours.
Zinc Oxide	1314-13-2	CA Alberta Provincial (Canada, 6/2018).  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,

 Date of issue/Date of revision
 : 4/19/2024
 Date of previous issue
 : 1/23/2024
 Version
 : 26
 7/19

 B59A225
 Heat-Flex® Hi-Temp 1200
 SHW-85-NA-GHS-US

Section 8. Exposure cont	rols/personal prot	tection
		6/2022).  TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable CA Quebec Provincial (Canada, 6/2022).  TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust.  STEV: 10 mg/m³ 15 minutes. Form: Respirable dust.  CA Ontario Provincial (Canada, 6/2019).  TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter.  STEL: 10 mg/m³ 15 minutes. Form: Respirable particulate matter.  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 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.
Naphthalene	91-20-3	CA Alberta Provincial (Canada, 6/2018).  Absorbed through skin.  15 min OEL: 15 ppm 15 minutes.  8 hrs OEL: 10 ppm 8 hours.  8 hrs OEL: 52 mg/m³ 8 hours.  15 min OEL: 79 mg/m³ 15 minutes.  CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin.  TWA: 10 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  Absorbed through skin.  TWA: 10 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  Absorbed through skin.  TWAEV: 10 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.  STEL: 15 ppm 15 minutes.  TWA: 10 ppm 8 hours.
Kaolin	1332-58-7	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form:
Date of issue/Date of revision : 4/19/202	24 Date of previous issue	: 1/23/2024 <b>Version</b> : 26 8/19

 Date of issue/Date of revision
 : 4/19/2024
 Date of previous issue
 : 1/23/2024
 Version
 : 26
 8/19/2024

 B59A225
 Heat-Flex® Hi-Temp 1200
 SHW-85-NA-GHS-US

1	Respirable
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 2 mg/m³ 8 hours. Form: Respirable
	dust.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 2 mg/m³ 8 hours. Form: Respirable
	particulate matter.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 4 mg/m³ 15 minutes. Form: respirable
	fraction
	TWA: 2 mg/m³ 8 hours. Form: respirable
	fraction
	CA British Columbia Provincial (Canada,
	6/2022). Notes: the value is for particulate
	matter containing no asbestos and less
	than 1% crystalline silica.
	TWA: 2 mg/m³ 8 hours. Form: Respirable

#### Occupational exposure limits (Mexico)

	CAS#	Exposure limits
Xylene, mixed isomers	1330-20-7	NOM-010-STPS-2014 (Mexico, 4/2016). [Xylenes (mixed)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Zinc Oxide	1314-13-2	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
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
Naphthalene	91-20-3	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.

#### **Biological exposure indices (United States)**

Ingredient name	Exposure indices
Xylene, mixed isomers	ACGIH BEI (United States, 1/2023) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	ACGIH BEI (United States, 1/2023) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
Naphthalene	ACGIH BEI (United States, 1/2023) BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient

 Date of issue/Date of revision
 : 4/19/2024
 Date of previous issue
 : 1/23/2024
 Version
 : 26
 9/19

 B59A225
 Heat-Flex® Hi-Temp 1200
 SHW-85-NA-GHS-US

data., 1-naphthol + 2-naphthol [(sample not specified)]. Sampling time: end of shift.

#### **Biological exposure indices (Canada)**

No exposure indices known.

#### **Biological exposure indices (Mexico)**

Ingredient name	Exposure indices
Xylene, mixed isomers	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methyl hippuric acids [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)  BEI: 0.7 g/g creatinine [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.; semi-quantitative.The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], Sum of mandelic acid and acid phenylglyoxylic [in urine]. Sampling time: at the end of the shift at the end of the work week.  BEI: semi-quantitative.The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible., ethylbenzene [in exhaled air]. 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**

Date of issue/Date of revision 10/19 : 4/19/2024 Date of previous issue : 1/23/2024 Version: 26 B59A225 Heat-Flex® Hi-Temp 1200

**Hygiene measures** 

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

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

**Eye/face protection** 

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

**Skin protection** 

**Hand protection** 

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

**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** 

Physical state : Liquid.
Color : Gray.

Odor : Not available.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling : 136°C (276.8°F)

point, and boiling range

Flash point : Closed cup: 31°C (87.8°F) [Pensky-Martens Closed Cup]

Evaporation rate : 0.8 (butyl acetate = 1)

Flammability : Flammable liquid.

Lower and upper explosion
limit/flammability limit : Lower: 0.8%
Upper: 7.9%

Vapor pressure : 0.95 kPa (7.1 mm Hg)

Relative vapor density : 3.66 [Air = 1]

Relative density : 1.93

Solubility(ies) :

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 11/19

B59A225 Heat-Flex® Hi-Temp 1200

Gray

# Section 9. Physical and chemical properties

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 : 5.996 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
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
_	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

**Irritation/Corrosion** 

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 12/19

B59A225 Heat-Flex® Hi-Temp 1200 Gray

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Heavy Aromatic Naphtha	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				uL	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
<b>.</b>		D 11.11		mg	
Naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05	-
				MI	

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Iron Oxide	-	3	-
Xylene, mixed isomers	-	3	-
Wollastonite	-	3	-
Ethylbenzene	-	2B	-
Naphthalene	-	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
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Heavy Aromatic Naphtha	Category 3	-	Narcotic effects
Ethylbenzene	Category 3	-	Narcotic effects
Methyl n-Amyl Ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Date of issue/Date of revision 13/19 : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 B59A225 SHW-85-NA-GHS-US

# Section 11. Toxicological information

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	-
Methyl n-Amyl Ketone	Category 2	-	-
Mica	Category 1	inhalation	lungs

#### **Aspiration hazard**

Name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Heavy Aromatic Naphtha	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Naphthalene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation: No specific data.Skin contact: No specific data.

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

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.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 14/19

B59A225 Heat-Flex® Hi-Temp 1200

Gray

# Section 11. Toxicological information

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	22803.94 mg/kg
Dermal	25248.3 mg/kg
Inhalation (vapors)	227.93 mg/l

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
•	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Zinc Oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Naphthalene	Acute EC50 1.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 μg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - <i>Uca pugnax</i> - Adult	3 weeks
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Oreochromis mossambicus	

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily
Methyl n-Amyl Ketone	-	-	Readily

#### **Bioaccumulative potential**

 Date of issue/Date of revision
 : 4/19/2024
 Date of previous issue
 : 1/23/2024
 Version
 : 26
 15/19

 B59A225
 Heat-Flex® Hi-Temp 1200
 SHW-85-NA-GHS-US

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Heavy Aromatic Naphtha	-	99 to 5780	High
Zinc Oxide	-	28960	High
Naphthalene	-	36.5 to 168	Low

**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. Marine pollutant (Zinc Phosphate, Heavy Aromatic Naphtha)
Transport hazard class(es)	3	3	3	3	3
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.

Date of issue/Date of revision

: 4/19/2024

Date of previous issue

: 1/23/2024

Version : 26

16/19

B59A225 Heat-Flex® Hi-Temp 1200

Gray

#### Section 14. Transport information **Additional** Product classified The The marine information as per the environmentally pollutant mark is following sections hazardous not required when of the substance mark transported in Transportation of sizes of ≤5 L or ≤5 may appear if **Dangerous Goods** required by other Regulations: transportation **Emergency** 2.18-2.19 (Class regulations. schedules F-E. S-3). Ε 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: Not available. to IMO instruments

Proper shipping name : Not available.

# Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 1-Methyl-2-Pyrrolidone

#### **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet, where applicable.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International regulations

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists : Australia inventory (AIIC): Not determined.

> China inventory (IECSC): Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined.

Date of issue/Date of revision : 4/19/2024 17/19 Date of previous issue : 1/23/2024 Version: 26

B59A225 Heat-Flex® Hi-Temp 1200

Gray

# Section 15. Regulatory information

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
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

#### **History**

Date of printing : 4/19/2024 Date of issue/Date of : 4/19/2024

revision

Date of previous issue : 1/23/2024

Version : 26

**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.

#### 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

 Date of issue/Date of revision
 : 4/19/2024
 Date of previous issue
 : 1/23/2024
 Version
 : 26
 18/19

 B59A225
 Heat-Flex® Hi-Temp 1200
 SHW-85-NA-GHS-US

## Section 16. Other information

responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision : 4/19/2024 Date of previous issue : 1/23/2024 Version : 26 19/19