# SAFETY DATA SHEET

B59SX830

## **Section 1. Identification**

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

Aluminum

Product code : B59SX830
Other means of : Not available.

Product type : Liquid.

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

Paint or paint related material.

identification

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

Regulatory Information Telephone Number

: US / Canada: (216) 566-2902

Mexico: Not Available

**Transportation Emergency** 

**Telephone Number** 

: US / Canada: (800) 424-9300

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

## Section 2. Hazards identification

**OSHA/HCS** status

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

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**CARCINOGENICITY - Category 2** 

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 25%

(oral), 40.7% (dermal), 39% (inhalation)

**GHS label elements** 

Hazard pictograms









Signal word : Danger

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 1/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA

Aluminum

## Section 2. Hazards identification

### **Hazard statements**

: Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

May cause 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. 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

### **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.

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

: Mixture

Other means of identification

: Not available.

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

Ingredient name	% by weight	CAS number
Aluminum	≥25 - ≤50	7429-90-5
p-Chlorobenzotrifluoride	≥10 - ≤25	98-56-6
Methyl n-Amyl Ketone	≥10 - ≤25	110-43-0
Di-isobutyl Ketone	≤10	108-83-8
1-Butanol	≤10	71-36-3
Light Aromatic Hydrocarbons	≤4.6	64742-95-6
trimethylbenzene	≤2.4	25551-13-7
4,6-Dimethyl-2-heptanone	≤3	19549-80-5
1,3,5-Trimethylbenzene	<1	108-67-8
1,2,4-Trimethylbenzene	<1	95-63-6
Xylene, mixed isomers	≤0.3	1330-20-7
1,2,3-Trimethylbenzene	≤0.3	526-73-8
Cumene	≤0.3	98-82-8

Date of issue/Date of revision: 9/16/2023Date of previous issue: 6/12/2023Version: 102/19B59SX830HEAT-FLEX® Hi-Temp 1000HASHW-85-NA-GHS-US

# Section 3. Composition/information on ingredients

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 : Get r

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. Chemical burns must be treated promptly by a physician. 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 damage.

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

dizziness. May cause respiratory irritation.

**Skin contact**: Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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

pain watering redness

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 3/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA Aluminum

## Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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<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

halogenated compounds

carbonyl halides 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.

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 4/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA

Aluminum

### 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 nonemergency 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**

: 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 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.

### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 5/19

# Section 7. Handling and storage

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)

Ingredient name	CAS#	Exposure limits
Aluminum	7429-90-5	NIOSH REL (United States, 10/2020).  TWA: 5 mg/m³ 10 hours. Form: Respirable fraction  TWA: 10 mg/m³ 10 hours. Form: Total  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³, (as Al) 8 hours. Form:  Respirable fraction  TWA: 15 mg/m³, (as Al) 8 hours. Form: Total dust  ACGIH TLV (United States, 1/2023).  [Aluminum, metal and insoluble compounds]  TWA: 1 mg/m³ 8 hours. Form: Respirable fraction
p-Chlorobenzotrifluoride Methyl n-Amyl Ketone	98-56-6 110-43-0	None.  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.
Di-isobutyl Ketone	108-83-8	ACGIH TLV (United States, 1/2023).  TWA: 25 ppm 8 hours.  TWA: 145 mg/m³ 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 150 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 50 ppm 8 hours.  TWA: 290 mg/m³ 8 hours.
1-Butanol	71-36-3	ACGIH TLV (United States, 1/2023).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.  CEIL: 50 ppm  CEIL: 150 mg/m³  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 300 mg/m³ 8 hours.

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 6/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA

Aluminum

Light Aromatic Hydrocarbons trimethylbenzene	64742-95-6 25551-13-7	None. ACGIH TLV (United States, 1/2023). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours.
4,6-Dimethyl-2-heptanone 1,3,5-Trimethylbenzene	19549-80-5 108-67-8	None.  ACGIH TLV (United States, 1/2023).  [trimethyl benzene, isomers]  TWA: 10 ppm 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.
1,2,4-Trimethylbenzene	95-63-6	NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.  ACGIH TLV (United States, 1/2023).  TWA: 10 ppm 8 hours.
Xylene, mixed isomers	1330-20-7	OSHA PEL (United States, 5/2018).  [Xylenes (o-, m-, p-isomers)]  TWA: 100 ppm 8 hours.  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.
1,2,3-Trimethylbenzene	526-73-8	ACGIH TLV (United States, 1/2023).  [trimethyl benzene, isomers]  TWA: 10 ppm 8 hours.  NIOSH REL (United States, 10/2020).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.
Cumene	98-82-8	ACGIH TLV (United States, 1/2023).  TWA: 5 ppm 8 hours.  NIOSH REL (United States, 10/2020).  Absorbed through skin.  TWA: 50 ppm 10 hours.  TWA: 245 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  Absorbed through skin.  TWA: 50 ppm 8 hours.  TWA: 245 mg/m³ 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,		

 Date of issue/Date of revision
 : 9/16/2023
 Date of previous issue
 : 6/12/2023
 Version
 : 10
 7/19

 B59SX830
 HEAT-FLEX® Hi-Temp 1000HA
 SHW-85-NA-GHS-US

SX830 HEAT-FLEX® Hi-Temp 1000HA Aluminum

Exposul			7/2013).
			STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Diisobutyl ketone		108-83-8	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 25 ppm 8 hours.  8 hrs OEL: 145 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 25 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 25 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  TWAEV: 25 ppm 8 hours.  TWAEV: 145 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 30 ppm 15 minutes.  TWA: 25 ppm 8 hours.
Normal butyl alcohol		71-36-3	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 60 mg/m³ 8 hours.  8 hrs OEL: 20 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  TWA: 15 ppm 8 hours.  C: 30 ppm  CA Ontario Provincial (Canada, 6/2019).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  Absorbed through skin.  STEV: 50 ppm 15 minutes.  STEV: 152 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 30 ppm 15 minutes.  TWA: 20 ppm 8 hours.
Trimethylbenzene		25551-13-7	CA Alberta Provincial (Canada, 6/2018).  [Trimethyl benzene (mixed isomers)]  8 hrs OEL: 123 mg/m³ 8 hours.  8 hrs OEL: 25 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2022).  [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2022).  [Trimethyl benzene (mixture of isomers)]  Skin sensitizer. Inhalation sensitizer.  TWAEV: 25 ppm 8 hours.  CA Ontario Provincial (Canada, 6/2019).  [Trimethyl benzene (mixed isomers)]  TWA: 25 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  [Trimethyl benzene mixed isomer]  STEL: 30 ppm 15 minutes.  TWA: 25 ppm 8 hours.
Xylene		1330-20-7	CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene (o,m & p isomers)] 8 hrs OEL: 100 ppm 8 hours.
ate of issue/Date of revision	: 9/16/2023 Date of n	revious issue	:6/12/2023 Version :10 8/:

Date of issue/Date of revision 8/19 : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 B59SX830 HEAT-FLEX® Hi-Temp 1000HA SHW-85-NA-GHS-US

		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: 434 mg/m³ 8 hours.  STEV: 651 mg/m³ 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.
Cumene	98-82-8	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2022).  TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019).  TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022).  TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 74 ppm 15 minutes. TWA: 50 ppm 8 hours.

### Occupational exposure limits (Mexico)

	CAS#	Exposure limits
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.
Di-isobutyl Ketone	108-83-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 25 ppm 8 hours.
1-Butanol	71-36-3	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 20 ppm 8 hours.
trimethylbenzene	25551-13-7	NOM-010-STPS-2014 (Mexico, 4/2016). [Trimethyl benzene, mixed isomers] TWA: 25 ppm 8 hours.
Cumene	98-82-8	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours.

**Biological exposure indices (United States)** 

Date of issue/Date of revision: 9/16/2023Date of previous issue: 6/12/2023Version: 109/19B59SX830HEAT-FLEX® Hi-Temp 1000HA<br/>AluminumSHW-85-NA-GHS-US<br/>A-GHS-US

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.

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

No exposure indices known.

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

No exposure indices known.

# 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: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

# 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.

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 10/19

# 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 : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling : 117°C (242.6°F)

point, and boiling range

1 117 3 (2 12:3 1 )

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

**Evaporation rate** : 0.43 (butyl acetate = 1)

Flammability : Flammable liquid.

Lower and upper explosion limit/flammability limit

: Lower: 0.7% Upper: 11.2%

Vapor pressure : 0.73 kPa (5.5 mm Hg)

**Relative vapor density** : 2.55 [Air = 1]

Relative density : 1.16

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 : 19.733 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

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 11/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA

Aluminum

# Section 10. Stability and reactivity

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
p-Chlorobenzotrifluoride	LD50 Oral	Rat	13 g/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Di-isobutyl Ketone	LD50 Dermal	Rabbit	16120 mg/kg	-
-	LD50 Oral	Rat	5750 mg/kg	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5000 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
·	LD50 Oral	Rat	5 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
Di-isobutyl Ketone	Eyes - Mild irritant	Human	-	15 minutes	-
				25 ppm	
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
1-Butanol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
		<b></b>		uL	
trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Moderate irritant	Dabbit		mg 24 hours 500	
	Skin - Moderate imtant	Rabbit	-		-
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit		mg 24 hours 500	
1,5,5-11iiilettiyiberizerie	Eyes - Willd IIIItant	Nabbit	-		-
	Skin - Moderate irritant	Rabbit		mg 24 hours 20	
	OKIII - MOGETALE IITILATIL	Tabbit		mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	_	87 mg	_
Aylene, mixed isomers	Eyes - Severe irritant	Rabbit	_	24 hours 5	_
	Lyos Government	Rabbit		mg	
	Skin - Mild irritant	Rat	_	8 hours 60 uL	_
	Skin - Moderate irritant	Rabbit	_	100 %	_
	Skin - Moderate irritant	Rabbit	_	24 hours 500	_
				mg	
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Date of issue/Date of revision

: 9/16/2023

Date of previous issue

: 6/12/2023

Version: 10

12/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA Aluminum

# Section 11. Toxicological information

ımene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	umene	Eyes - Mild irritant Skin - Mild irritant	Eyes - Mild irritant Rabbit Skin - Mild irritant Rabbit	Eyes - Mild irritant Rabbit - Rabbit -	Eyes - Mild irritant Rabbit - 86 mg Skin - Mild irritant Rabbit - 24 hours 10 mg Skin - Moderate irritant Rabbit - 24 hours 100

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### Carcinogenicity

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
p-Chlorobenzotrifluoride	-	2B	-
Xylene, mixed isomers	-	3	-
Cumene	-	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
p-Chlorobenzotrifluoride	Category 3	-	Respiratory tract irritation
Methyl n-Amyl Ketone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Di-isobutyl Ketone	Category 3	-	Respiratory tract irritation
1-Butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4,6-Dimethyl-2-heptanone	Category 3	-	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Xylene, mixed isomers	Category 3	-	Respiratory tract
1,2,3-Trimethylbenzene	Category 3	-	Respiratory tract
Cumene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Date of issue/Date of revision: 9/16/2023Date of previous issue: 6/12/2023Version: 1013/19B59SX830HEAT-FLEX® Hi-Temp 1000HA<br/>AluminumSHW-85-NA-GHS-US

# **Section 11. Toxicological information**

Name	• •	Route of exposure	Target organs
Methyl n-Amyl Ketone	Category 2	-	-
1-Butanol	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-

### **Aspiration hazard**

Name	Result
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
1,2,3-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

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

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

dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

**Ingestion**: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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

pain watering redness

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

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

pain or irritation

redness

blistering may occur

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

stomach pains

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

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 14/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA SHW-85-NA-GHS-US

# Section 11. Toxicological information

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General**: May cause 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.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	3930.83 mg/kg
Dermal	33614.67 mg/kg
Inhalation (vapors)	45.71 mg/l

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Aluminum	Acute LC50 38000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 120 μg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1-Butanol	Acute EC50 1983 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
trimethylbenzene	Acute LC50 5600 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
1,3,5-Trimethylbenzene	Acute LC50 13000 μg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days
1,2,4-Trimethylbenzene	Acute LC50 4910 μg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 μg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Cumene	Acute EC50 7.4 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2700 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

 Date of issue/Date of revision
 : 9/16/2023
 Date of previous issue
 : 6/12/2023
 Version
 : 10
 15/19

 B59SX830
 HEAT-FLEX® Hi-Temp 1000HA
 SHW-85-NA-GHS-US

30 HEAT-FLEX® Hi-Temp 1000HA Aluminum

# Section 12. Ecological information

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl n-Amyl Ketone	-	-	Readily
1-Butanol	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Xylene, mixed isomers	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Light Aromatic Hydrocarbons	-	10 to 2500	High
1,3,5-Trimethylbenzene	-	161	Low
1,2,4-Trimethylbenzene	-	243	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low
1,2,3-Trimethylbenzene	-	194.98	Low
Cumene	-	35.48	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
Transport hazard class(es)	3	3	3	3	3

Date of issue/Date of revision

: 9/16/2023

Date of previous issue

: 6/12/2023

Version: 10

SHW-85-NA-GHS-US

16/19

HEAT-FLEX® Hi-Temp 1000HA

Aluminum

B59SX830

Section 14. Transport information					
Packing group	III	III	III	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 liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.	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
	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

### **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

Date of issue/Date of revision 17/19 : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 B59SX830 HEAT-FLEX® Hi-Temp 1000HA SHW-85-NA-GHS-US

# Section 15. Regulatory information

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 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	On basis of test data Calculation method Calculation method
CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

### **History**

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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

Date of issue/Date of revision : 9/16/2023 Date of previous issue : 6/12/2023 Version: 10 18/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA

Aluminum

## Section 16. Other information

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 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 : 9/16/2023 Date of previous issue : 6/12/2023 Version : 10 19/19

B59SX830 HEAT-FLEX® Hi-Temp 1000HA Aluminum