### ALLIAGE BRAZE 402 F - FBM - FDS8009

Date : 14/09/2015 Page 1/8 Revision : N°10 (06/03/2014)



# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name: ALLIAGE BRAZE 402 F - FBM

Product code: FDS8009.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

# 1.3. Details of the supplier of the safety data sheet

Registered company name: LUCAS MILHAUPT RIBERAC. Address: ZAE Les Chaumes.24600.RIBERAC.FRANCE. Telephone: (+33)5 53 92 53 00. Fax: (+33)5 53 90 36 38.

qualite@lucasmilhaupt.fr www.lucasmilhaupt.com

Correspondant REACH: Steve MAREK / LM\_TechService@lucasmilhaupt.com

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA http://www.centres-antipoison.net.

### **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

# In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Reproductive toxicity, Category 2 (Repr. 2, H361).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

# 2.2. Label elements

# In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:







GHS08

GHS07

GHS09

Signal Word : WARNING

Product identifiers:

EC 215-575-5 TETRABORATE DE POTASSIUM

 $Hazard\ statements:$ 

H315 Causes skin irritation.
H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash ... thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

Precautionary statements - Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see ... on this label).

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

(EC) 1272/2009

P391 Collect spillage.

Precautionary statements - Storage:

P405 Store locked up.

Precautionary statements - Disposal:

P501 Dispose of contents/container to ...

#### 2.3. Other hazards

In the event of dust formed by mechanical action (sanding, sawing, etc..), this dust may cause irritation by inhalation and contact with eyes.

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

**Composition:** 

Identification	(EC) 1272/2008	Note	%
INDEX: 7440_22_4		[1]	25 <= x % < 50
CAS: 7440-22-4			
EC: 231-131-3			
REACH: 01-2119555669-21-0025			
ARGENT			
INDEX: 7440508		[1]	$25 \le x \% < 50$
CAS: 7440-50-8			
EC: 231-159-6			
REACH: 01-2119480154-42-0002			
CUIVRE			
INDEX: 030-001-01-9	GHS09		10 <= x % < 25
CAS: 7440-66-6	Wng		
EC: 231-175-3	Aquatic Acute 1, H400		
	M Acute = 1		
ZINC POWDER - ZINC DUST (STABILISED)	Aquatic Chronic 1, H410		
	M Chronic = 1		
INDEX: C14075_53_7	GHS07		2.5 <= x % < 10
CAS: 14075-53-7	Wng		
EC: 237-928-2	Eye Irrit. 2, H319		
TETRAFLUOROBORATE DE POTASSIUM			
INDEX: C12045_78_2	GHS08	[2]	2.5 <= x % < 10
CAS: 12045-78-2	Wng		
EC: 215-575-5	Repr. 2, H361d		
TETRABORATE DE POTASSIUM			
INDEX: 7440_31_5	GHS07	[1]	$0 \le x \% < 2.5$
CAS: 7440-31-5	Wng		
EC: 231-141-8	Eye Irrit. 2, H319		
REACH: 01-2119486474-28-0004	STOT SE 3, H335		
ETAIN			
INDEX: 009-008-00-9	GHS06, GHS05		0 <= x % < 2.5
CAS: 7789-29-9	Dgr		
EC: 232-156-2	Acute Tox. 3, H301		
	Skin Corr. 1B, H314		
POTASSIUM BIFLUORIDE	,		
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INDEX: 009-005-00-2	GHS06	0 <= x % < 2.5
CAS: 7789-23-3	Dgr	
EC: 232-151-5	Acute Tox. 3, H331	
	Acute Tox. 3, H311	
POTASSIUM FLUORIDE	Acute Tox. 3, H301	

### Information on ingredients:

- [1] Substance for which maximum workplace exposure limits are available.
- [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

# **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. Description of first aid measures

### In the event of exposure by inhalation:

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

# In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

### In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

# In the event of swallowing:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

# 4.2. Most important symptoms and effects, both acute and delayed

No data available.

# 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

# **SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

# 5.1. Extinguishing media

# Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

### Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

# 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- fluorine (F2)

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#### 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid any contact with the skin and eyes.

### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

### 6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming).

#### 6.4. Reference to other sections

No data available.

### SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

### Fire prevention:

Prevent access by unauthorised personnel.

# Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

For paint products, avoid breathing dust, particles or vapours from the treatment of surfaces coated with this mixture by dry sanding or by hot working (welding, soldering, cutting, etc).

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

# Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

# 7.2. Conditions for safe storage, including any incompatibilities

No data available.

# **Packaging**

Always keep in packaging made of an identical material to the original.

# 7.3. Specific end use(s)

No data available.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

# Occupational exposure limits:

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
7440-22-4	0.1	-	_	_	-

 $- ACGIH\ TLV\ (American\ Conference\ of\ Governmental\ Industrial\ Hygienists,\ Threshold\ Limit\ Values,\ 2010):$ 

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7440-22-4	0.1 mg/m3	-	-	-	-
7440-50-8	0.2 mg/m3	-	-	-	-
7440-31-5	2 mg/m3	_	-	_	_

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- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS VME: VME: Excess Notes 7440-22-4 - 0,1 mg/m3 E 8(II) DFG, EU

- France (INRS - ED984:2008):

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

# 8.2. Exposure controls

# Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties:

- Impervious gloves in accordance with standard EN374

# - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

# - Respiratory protection

Avoid breathing dust.

Type of FFP mask:

Wear a disposable half-mask dust filter in accordance with standard EN149.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

# $General\ information:$

Physical state: Solid.

# $Important\ health,\ safety\ and\ environmental\ information$

pH: Not relevant.

Boiling point/boiling range: Not relevant.

Flash point interval: Not relevant.

Vapour pressure (50°C): Not relevant.

Density: >1

Water solubility:

Melting point/melting range:

Not relevant.

Self-ignition temperature:

Not relevant.

Decomposition point/decomposition range:

Not relevant.

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### 9.2. Other information

No data available.

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

# 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

# 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Avoid:

- formation of dusts

Dusts can form an explosive mixture with air.

# 10.5. Incompatible materials

# 10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- fluorine (F2)

# SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

In the event of dust formed by mechanical action (sanding, sawing, etc..), this dust may cause irritation by inhalation and contact with eyes.

Suspected human reproductive toxicant.

Suspected of damaging fertility and the unborn child.

### 11.1.1. Substances

### Acute toxicity:

TETRABORATE DE POTASSIUM (CAS: 12045-78-2)

Oral route: LD50 > 3500 mg/kg

Species: Rat (recommended by the CLP)

ARGENT (CAS: 7440-22-4)

Oral route: LD50 > 5000 mg/kg

Species : Mouse

# 11.1.2. Mixture

No toxicological data available for the mixture.

# **SECTION 12: ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

# 12.1. Toxicity

# 12.1.1. Substances

TETRABORATE DE POTASSIUM (CAS: 12045-78-2)

Fish toxicity: LC50 = 40 mg/l

Species : Limanda limanda Duration of exposure : 96 h

Crustacean toxicity: EC50 = 133 mg/l

Species: Daphnia magna

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Duration of exposure: 48 h

Algae toxicity: ECr50 = 24 mg/l

Species : Scenedesmus subspicatus Duration of exposure : 96 h Date : 14/09/2015 Page 7/8 Revision : N°10 (06/03/2014)

#### **12.1.2.** Mixtures

No aquatic toxicity data available for the mixture.

# 12.2. Persistence and degradability

#### 12.2.1. Substances

TETRABORATE DE POTASSIUM (CAS: 12045-78-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading

quickly.

### 12.3. Bioaccumulative potential

No data available.

# 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

# Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

# Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

# **SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

# **SECTION 15: REGULATORY INFORMATION**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# - Classification and labelling information included in section 2:

The following regulations have been used:

- Regulation EC 1272/2008 modified by regulation EC 790/2009

# - Container information:

No data available.

# - Particular provisions :

No data available.

# 15.2. Chemical safety assessment

No data available.

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### **SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3:

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects

#### Abbreviations:

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark GHS08 : Health hazard GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.