

According to (EC) No. 1907/2006, as amended

<b>16 1232-D</b>		<b>DSDC 16 1232 BROWN 5KG</b>	
Product specification	<b>RS_FP_300804</b>	Revision Date	<b>19.11.2020</b>
Version	<b>4.0</b>	Print Date	<b>26.11.2020</b>
Material number	<b>1060612</b>	Page	Page 1 of 17

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

### 1.1 Product identifier

Material number : **1060612**

Trade name : **16 1232-D**  
DSDC 16 1232 BROWN 5KG

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

Use of the Substance/Mixture : Manufacture of ceramic coatings and decorating preparations suited for firing, for glass and ceramics.

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

Company : Ferro (Great Britain) Limited  
Nile Street, Burslem  
ST6 2BQ Stoke-on-Trent

Telephone : +441782820400

Telefax : +441782820402

E-mail address : sdsuk@ferro.com

Responsible/issuing person

### 1.4 Emergency telephone number

In-Country Number : +(44)-870-8200418

CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 1A	H360Df: May damage the unborn child. Suspected of damaging fertility.
H362: Effect on or via lactation	H362: May cause harm to breast-fed children.

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Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H302 + H332	Harmful if swallowed or if inhaled
H351	Suspected of causing cancer.
H360Df	May damage the unborn child.
H362	Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements :

<b>Prevention:</b>	
P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
<b>Response:</b>	
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:  
frits, chemicals (contains Pb and B)

### Additional Labelling:

Restricted to professional users.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature : glass/frit  
inorganic pigment

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
frits, chemicals (contains Pb and B)	65997-18-4 266-047-6 01-2119548361-42- xxxx	Acute Tox. 4; H302 Acute Tox. 4; H332 Carc. 2; H351 Repr. 1A; H360Df H362 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 50 - <= 100

For explanation of abbreviations see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

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If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
 Induce vomiting immediately and call a physician.  
 Keep respiratory tract clear.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.

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

Symptoms : None known.  
 Risks : Harmful if swallowed or if inhaled  
 Suspected of causing cancer.  
 May damage the unborn child. Suspected of damaging fertility.  
 May cause harm to breast-fed children.  
 Causes damage to organs through prolonged or repeated exposure.

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
No conditions to be specially mentioned.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Avoid release to the environment.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Other data : Keep in a dry place. No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Expressed as	Basis
frits, chemicals (contains Pb and B)	65997-18-4	TWA	0,15 mg/m <sup>3</sup> (Lead)	Lead	98/24/EC I
Further information	Binding				
		TWA	10 mg/m <sup>3</sup>		GB EH40
		STEL	20 mg/m <sup>3</sup>		GB EH40
		TWA	10 mg/m <sup>3</sup>		GB EH40
		STEL	20 mg/m <sup>3</sup>		GB EH40

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
frits, chemicals (contains Pb and B)	65997-18-4	Lead: 0,7 mg/l (Blood)		98/24/EC II

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

frits, chemicals (contains Pb and B) : End Use: Worker - women of child-bearing capacity  
Value: 10 µg Pb/dL blood

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End Use: Worker (adult)  
Value: 40 µg Pb/dL blood

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 8,3 mg B/m<sup>3</sup>

End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 392 mg B/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

frits, chemicals (contains Pb and B) : Fresh water  
Value: 2,4 µg Pb/L

Marine water  
Value: 3,3 µg Pb/L

Sewage treatment plant  
Value: 100 µg Pb/L

Fresh water  
Value: 2,9 µg B/l

Marine water  
Value: 2,9 µg B/l

Sewage treatment plant  
Value: 10 µg B/l

## 8.2 Exposure controls

### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

### Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : > 0,4 mm

Remarks : Use chemical-protective gloves with CE-labelling of category III. The selected protective gloves have to satisfy the specifications of the Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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- Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Suitable mask with particle filter P3 (European Norm 143)
- Protective measures : Wear suitable protective equipment.  
Avoid contact with skin.  
When using do not eat, drink or smoke.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Appearance : powder
- Colour : brown
- Odour : odourless
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/range : No data available
- Boiling point/boiling range : Not applicable
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : No data available
- Burning rate : No data available
- Auto-ignition temperature : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : Not applicable



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Relative density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Oxidizing properties : Not applicable

**9.2 Other information**

Refractive index : Not applicable

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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under recommended storage conditions.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.  
No hazards to be specially mentioned.**10.4 Conditions to avoid**

Conditions to avoid : No data available

**10.5 Incompatible materials**

Materials to avoid : No data available

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### 10.6 Hazardous decomposition products

Stable under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed or if inhaled

##### Product:

Acute oral toxicity : Acute toxicity estimate: 625 mg/kg  
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate: 1,88 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Remarks: No data available

##### Components:

##### ***frits, chemicals (contains Pb and B):***

Acute oral toxicity : LD50 Oral (Rat): > 2000 mg/kg body weight  
Method: OECD Test Guideline 423  
Test substance: LeadLD50 Oral (Rat): 3765 mg/kg body weight  
Method: OECD Test Guideline 401  
Test substance: H3BO3Acute dermal toxicity : LD50 Dermal (Rat): > 2000 mg/kg body weight  
Method: OECD Test Guideline 402  
Test substance: LeadLD50 Dermal (Rabbit): > 2000 mg/kg body weight  
Test substance: Boron

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

##### Product:

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Remarks: No data available

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Suspected of causing cancer.

### Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.  
May cause harm to breast-fed children.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks: No data available

#### Components:

##### **frits, chemicals (contains Pb and B):**

Remarks: Values for the elements, not the Frit itself.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Product:

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### Components:

##### **frits, chemicals (contains Pb and B):**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 40,8 µg Pb/L  
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 79,7 mg B/L  
Exposure time: 96 h

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 20,5 µg Pb/L  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (algae)): 52,4 mg B/L  
Exposure time: 72 h

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

According to (EC) No. 1907/2006, as amended

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- Product : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Offer surplus and non-recyclable solutions to a licensed disposal company.  
 Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Do not re-use empty containers.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

- ADN** : UN 3077  
**ADR** : UN 3077  
**RID** : UN 3077  
**IMDG** : UN 3077  
**IATA** : UN 3077

### 14.2 UN proper shipping name

- ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (frits, chemicals (contains Pb and B))
- ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (frits, chemicals (contains Pb and B))
- RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (frits, chemicals (contains Pb and B))
- IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (frits, chemicals (contains Pb and B))
- IATA** : Environmentally hazardous substance, solid, n.o.s.  
 (frits, chemicals (contains Pb and B))

### 14.3 Transport hazard class(es)

- ADN** : 9  
**ADR** : 9  
**RID** : 9

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**IMDG** : 9

**IATA** : 9

## 14.4 Packing group

### ADN

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

### ADR

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA

Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : 9

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

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#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable for product as supplied.

### SECTION 15: REGULATORY INFORMATION

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Neither banned nor restricted

Regulation 2019/1021 on persistent organic pollutants : Neither banned nor restricted

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1	ENVIRONMENTAL HAZARDS	Quantity 1 100 t	Quantity 2 200 t

Other regulations : The employment limitations under the regulations to the protection from hazardous materials of pregnant women and young mothers guideline and the protection of young persons act are to be observed.

#### The components of this product are reported in the following inventories:

EINECS (European Union) : On the inventory, or in compliance with the inventory

SWISS (Switzerland) : On the inventory, or in compliance with the inventory

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TSCA (United States)	: On TSCA Inventory
DSL/NDSL (Canada)	: All components of this product are on the Canadian DSL.
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZioC (New Zealand)	: On the inventory, or in compliance with the inventory
ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: On the inventory, or in compliance with the inventory
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: On the inventory, or in compliance with the inventory
TCSI (Taiwan)	: On the inventory, or in compliance with the inventory
CICR (Turkey)	: On the inventory, or in compliance with the inventory
INSQ (Mexico)	: Not in compliance with the inventory

## 15.2 Chemical Safety Assessment

Not applicable

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## SECTION 16: OTHER INFORMATION

### Full text of H-Statements

H302	: Harmful if swallowed.
H332	: Harmful if inhaled.
H351	: Suspected of causing cancer.
H360Df	: May damage the unborn child. Suspected of damaging fertility.



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- H362 : May cause harm to breast-fed children.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

- Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Carc. : Carcinogenicity  
Repr. : Reproductive toxicity  
STOT RE : Specific target organ toxicity - repeated exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.