

according to Regulation (EC) No. 1907/2006

<b>14 64888-D</b>		<b>H 64888 BLACK</b>	
Product specification	<b>RS_FP_304588</b>	Revision Date	<b>03/07/2016</b>
Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 1 of 11

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

### Product identifier

Material number : **1180573**

Trade name : **14 64888-D**  
H 64888 BLACK

### 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 GmbH  
Gutleutstraße 215  
60327 Frankfurt am Main

Telephone : +4969271160  
Telefax : +496927116333  
E-mail address : [sdb@ferro.com](mailto:sdb@ferro.com)

Responsible/issuing person

### Distributor

enamelWorkshop / innerShelter  
Gemeentestraat 232  
3010 Kessel-lo, Belgium

[info@enamelworkshop.com](mailto:info@enamelworkshop.com)

### 1.4 Emergency telephone number

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)

Not a hazardous substance or mixture.

This document has been developed with the exclusive purpose of complying with the obligation of informing the supply chain according to article 32 of the Reach regulation, because this material is not classified and does not require a material safety data sheet.

### 2.2 Label elements

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

Not a hazardous substance or mixture.

### 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.

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

<b>14 64888-D</b>		<b>H 64888 BLACK</b>	
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Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 2 of 11

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature : glass/frit  
inorganic pigment

#### Hazardous components

Remarks : No hazardous ingredients

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
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.

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

- Symptoms : None known.  
Risks : None known.

### 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.

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Material number	<b>1180573</b>	Page	Page 3 of 11

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## 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

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.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## 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.

### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

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

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

### 6.4 Reference to other sections

For personal protection see section 8.

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

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Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 4 of 11

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8. No special handling advice required. Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Hygiene measures : General industrial hygiene practice.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No special restrictions on storage with other products. No materials to be especially mentioned.
- 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

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

No data available

#### Personal protective equipment

- Eye protection : Safety glasses
- Hand protection  
Remarks : For prolonged or repeated contact use protective gloves.
- Skin and body protection : Protective suit

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

<b>14 64888-D</b>		<b>H 64888 BLACK</b>	
Product specification	<b>RS_FP_304588</b>	Revision Date	<b>03/07/2016</b>
Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 5 of 11

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Wear suitable protective equipment.  
When using do not eat, drink or smoke.

### Environmental exposure controls

General advice : No special environmental precautions required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : black

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 : Not applicable

Vapour pressure : No data available

Relative vapour density : Not applicable

Relative density : No data available

Bulk density : No data available

# SAFETY DATA SHEET



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Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 6 of 11

Solubility(ies)  
Water solubility : No data available

Solubility in other solvents : No data available

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

Thermal decomposition : 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.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : 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

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

14 64888-D		H 64888 BLACK	
Product specification	RS_FP_304588	Revision Date	03/07/2016
Version	1.4	Print Date	07/10/2020
Material number	1180573	Page	Page 7 of 11

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Product:

Remarks: No data available

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

14 64888-D		H 64888 BLACK	
Product specification	RS_FP_304588	Revision Date	03/07/2016
Version	1.4	Print Date	07/10/2020
Material number	1180573	Page	Page 8 of 11

## STOT - repeated exposure

Not classified based on available information.

## Aspiration toxicity

Not classified based on available information.

## Further information

### Product:

Remarks: No data available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### 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..



# SAFETY DATA SHEET



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Version	1.4	Print Date	07/10/2020
Material number	1180573	Page	Page 9 of 11

## 12.6 Other adverse effects

### Product:

Additional ecological information : Remarks: No data available  
There is no data available for this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type : N/A  
Pollution category : N/A

## SECTION 15: REGULATORY INFORMATION

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

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

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Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 10 of 11

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 (EC) No 850/2004 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.  
Not applicable

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

- REACH : On the inventory, or in compliance with the inventory
- CH INV : On the inventory, or in compliance with the inventory
- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

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Version	<b>1.4</b>	Print Date	<b>07/10/2020</b>
Material number	<b>1180573</b>	Page	Page 11 of 11

## Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

## 15.2 Chemical Safety Assessment

Not applicable

## SECTION 16: OTHER INFORMATION

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.