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# Safety Data Sheet Fuse Master EZ Fire Enamels

SDS conform REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II - EU

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 5.5.2017

1.1. Product identifier

Product name Fuse Master EZ Fire Enamels

Chemical nameGlass FritSynonymsVitreous EnamelsCAS no.Not ApplicableProduct TypePowdered frit

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

Use of the substance/preparation Applied and fused at 1380F / 750C to glass substrates.

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

Company name Fusion Headquarters Address 15500 NE Kincaid Rd.

Postcode 97132
City Newberg
State OR.
Country USA

Tel 503-538-5281 Fax 503-538.6527

E-mail office@fusionheadquaers.com
Website http://www.fusionheadquarters.com/

#### 1.4. Emergency telephone number

Emergency telephone Poison Control 1-800-222-1222

Recommended use: Industrial use.

Restrictions on use: Reserved for industrial and professional use.

# SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

GHS08 Health hazard Carc. 2 H351 Suspected of causing cancer.

## 2.2 Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word Warning
Hazard-determining components of labeling: titanium dioxide

Hazard statements Suspected of causing cancer.

Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

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

IF exposed or concerned: Get medical advice/attention.



Store locked up. Precautionary statements

Dispose of contents/container in accordance with

REACTIVITY

local/regional/national/international regulations.

2.3 Classification system:

Health = 0 NFPA ratings (scale 0 - 4)

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0

Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.



Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions

3.1 Dangerous components: titanium dioxide 10-25% 13463-67-7

Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First-aid measures**

## 4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Rinse with warm water.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects,

both acute and delayed: No further relevant information available.

Indication of any immediate medical

attention and special treatment needed: No further relevant information available.

# **SECTION 5: Fire fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable

extinguishing agents: Water with full jet

## 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment: No special measures required.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.



### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Environmental precautions:

Do not empty into drains.

Methods and material for containment and cleaning up:

Pick up mechanically.

Not required.

Reference to other sections

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

Wear suitable protective clothing and gloves.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Protective Action Criteria for Chemicals

PAC-1:

13463-67-7 titanium dioxide 30 mg/m3

PAC-2:

13463-67-7 titanium dioxide 330 mg/m3

PAC-3:

13463-67-7 titanium dioxide 2,000 mg/m3

## **SECTION 7: Handling and storage**

7.1 Handling:

Precautions for safe handling Take note of emission threshold. Prevent formation of dust.

> Use only in well-ventilated areas. Handle and open container with care.

The product is not flammable.

Information about protection against explosions and fires:

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

### Components with limit values that require monitoring at the workplace:

13463-67-7 titanium dioxide

PEL Long-term value: 15\* mg/m3 \*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³ withdrawn from NIC

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Do not eat, drink, smoke or sniff while working.

Breathing equipment: Not required.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/

the preparation.

(Contd. on page 4)

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Protection of hands: Due to missing tests no recommendation to the glove material can be given for the

product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks

of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore

to be checked prior to the application.

Eye protection: Goggles recommended during refilling.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Powder

Color: Different according to coloring

Odor: Odorless

Odor threshold: Not determined.

pH-value at 20 °C (68 °F): 7

## 9.2 Change in condition

Melting point/Melting range: Boiling point/Boiling range:

Undetermined.

Flash point:

Flammability (solid, gaseous):

Undetermined.

Not applicable.

Not determined.

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

### 9.3 Explosion limits

Lower: Not determined. Upper: Not determined. Vapor pressure: Not applicable.

Density at 20 °C (68 °F): 3.5 g/cm³ (29.208 lbs/gal)

Relative density
Vapor density
Not applicable.
Evaporation rate
Solubility in / Miscibility with Water:
Insoluble.

Partition coefficient (n-octanol/water): Not determined.

## 9.4 Viscosity

Dynamic: Not applicable. Kinematic: Not applicable.

#### 9.5 Solvent content:

Organic solvents: 0.0 %
Solids content: 100.0 %

Other information No further relevant information available.

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## **SECTION 10: Stability and reactivity**

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.

No decomposition if used and stored according to specifications.

Stable up to melting point.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:
Incompatible materials:
No further relevant information available.
No further relevant information available.
No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally

approved calculation methods for preparations:

IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide 2B

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential:

No further relevant information available.

No further relevant information available.

Ecotoxical effects:

Behavior in sewage processing plants: The product can be mechanically separated.

#### 12.2 Additional ecological information

General notes: The product contains materials that are harmful to the environment.

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 12.3 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No further relevant information available.

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation: Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

After prior treatment product has to be landfilled adhering to the regulations pertaining to the

disposal of particularly hazardous waste.

Waste disposal key: 55515 (Pigments)

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Void

Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA

Class Void

14.2 Packing group

DOT, ADR, IMDG, IATA Void

Environmental hazards: Not applicable.

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL73/78

and the IRC Code

and the IBC Code Not applicable.

UN "Model Regulation": Void

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Section 355 (extremely hazardous substances):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act): 13463-67-7 titanium dioxide Proposition 65: None of the ingredients is listed. Chemicals known to cause cancer: 13463-67-7 titanium dioxide

Chemicals known to cause reproductive

toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive

toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental

toxicity: None of the ingredients is listed. EPA (Environmental Protection Agency): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

13463-67-7 titanium dioxide A4

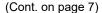
NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide•

#### 15.2 GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



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#### Signal word Warning

Hazard-determining components of labeling: titanium dioxide

Hazard statements: suspected of causing cancer.

Precautionary statements: Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

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

IF exposed or concerned: Get medical advice/attention.

Store: locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: FHQ nvironment protection department.

Contact: Gil Reynolds
Date of preparation / last revision 05/05/2017

#### 16.1 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Code for Dangerous Goods

**DOT:** US Department of Transportation **IATA:** International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

**EINECS:** European Inventory of Existing Commercial Chemical Substances

**ELINCS:** European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

**PBT:** Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative **NIOSH:** National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Carc. 2: Carcinogenicity - Category 2