WHEELPAINTS

*Specialist Paints for the Alloy Wheel Industry*

# MATERIAL SAFETY DATA SHEETS

## 1. Identification of the substance

**Product Details:**

Product Name: Felgen Clearcoat Powder 52-00-36
Application of the substance/ the preparation: Thermosetting Powder coating
Supplier: WHEELPAINTS
NN5 5JF
UNITED KINGDOM
Tel: 01604 600582
E-mail: esales@wheelpaints.co.uk
www.wheelpaints.co.uk

## 2. Hazards identification

Classification of the dangerous component listed in section 3:

Skin sens. 1B – H317
Acute Tox.3 – H301
Eye Damage 1 – H318
Acute Tox.3 – H331
Muta. 1B – 1B-H340
STOT RE 2 – H373
Aquatic Chronic 3 – H412

**Label elements:**
None required.

**Precautionary Statements:**

- P261 Avoid breathing dust /fumes/gas/mist/vapours/spray
- P302-P352 Wash thoroughly after handling
- Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection

## 3. Composition/information on ingredients

**Chemical characterization –** Mixture
**Description –** Mixture of substances listed below with non-hazardous additions
**Dangerous components:**
2451-62-9 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-TRIONE (TGIC) 2-5%

(Note that tgic pre-reacts during the manufacture of the powder coating and thus no longer exists as tgic in the powder)

## 4. First Aid Measures

**Description of first aid measures**

**General information-** No special measures required.

**After inhalation –** Supply fresh air, consult doctor in case of symptoms (**After**)

**Skin contact –** If skin irritation continues consult a doctor

**After eye contact –** Rinse open eye for several minutes under running water (**After**)

**Swallowing –** Seek immediate medical advice

**Extinguishing Media:**

- Use $CO^2$ blanket, powder, water spray or mist
- Do not use inert gas under high pressure (e.g. $CO^2$)

**Special hazards arising from the substance or mixture:**

- Fire will produce dense black smoke
- Decomposition products may include harmful products such as carbon monoxide, carbon dioxide, smoke and oxides of nitrogen.

**Advice for fire-fighters:**

- Wear self-contained breathing apparatus.

## 5. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

- Avoid causing dust
- Keep away from ignition sources
- Ensure adequate ventilation
- Wear required PPE

**Environmental precautions:**

- Do not allow product to reach sewage system or water bodies.

**Methods and material for containment and cleaning up:**

- Collect by wet brushing or an electrically protected vacuum cleaner, avoid generating dust.
- Dispose of contaminated material as waste.

## 6. Handling and storage

**Handling**

**Precautions for safe handling:**

- Prevent the formation of dust
- All electrical equipment should be protected to prevent sparks or the powder meeting hot surfaces.
- Use earthing straps, antistatic footwear and clothing to prevent sparks due to static discharge
- Avoid contact with the skin and eyes
- Avoid inhalation of dust particles

**Conditions for safe storage:**

- Store in the original package and re-seal tightly after use

- Store in a dry cool well ventilated environment out of direct sunlight or heat
- Keep away from sources of ignition
- A no-smoking policy should be enforced

## 7. Exposure controls/personal protection

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**Substance : TGIC O.1 mg/m³ MEL***

***MEL indicates <u>MAXIMUM</u> EXPOSURE LIMIT**

An estimate of exposure to TGIC can be carried out by measuring exposure to total inhalable particulate (TIP), and then calculating how much of this material is TGIC.

For products with TGIC in the range 0.1 to <5% exposure to TIP below 1mg/m³ will mean exposure to TGIC will be below the MEL of 0.1mg/m³.

**Additional information:**

- The lists valid during the making if this SDS were used. For the wording of the listed hazard phrases refer to section 15.

**Additional information about design of technical systems:**

- No further data; see section 6.

**Exposure Controls**

**Personal protective equipment:**

-In cases where the concentration of dust cannot be kept below the required OEL then appropriate PPE must be worn.

**General protective and hygiene measures:**

-Keep away from foodstuffs and beverages
- No smoking
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

**Respiratory protection:**

- In case of concentration above the OEL use breathing equipment

**Protection of hands:**

- The glove material has to be impermeable and resistant to the product.
- Due to missing tests no recommendation as to the glove material can be given for the product.
- Selection on the glove material is by consideration of the penetration times, rate of diffusion and the degradation.

**Material of gloves:**

- The selection of 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 cannot be calculated in advance and has therefore to be checked prior to application.

**Penetration time of glove material:**

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye Protection:**

- In case of formation of dust use safety glasses.

**8. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Physical State:** solid powder
**Colour:** according to product specification
**Odour:** characteristic
**Odour threshold:** not determined
**pH:** not applicable
**Melting point:** >50°C
**Boiling point:** not determined
**Flash point:** not applicable
**Self-igniting:** product is not self-igniting
**Danger of explosion:** product is not explosive however formation of an explosive air/dust mixture is possible.
**Upper/lower explosion limits:** 20 o 70gm/m3
**Decomposition temperature:** not determined
**Vapour pressure:** not applicable
**Vapour density:** not applicable
**Solubility in water:** the product is immiscible with water
**Relative density:** 1.2 to 1.9gm/cc
**Solvent content**
**Organic solvent:** 0.0%
**Solid content:** 100%
**Other information:** no other relevant information

**9. Stability and reactivity**

**Reactivity**
**Chemical stability**
**Conditions to be avoided:** No decomposition products if used according to specification.
**Possibility of hazardous reactions:** No dangerous reactions known.
**Conditions to avoid:** When exposed to high temperatures may produce hazardous decomposition products.
**Incompatible materials:** None known.
**Hazardous decomposition products:** In case of fire: $CO^2$, CO, NOx

**10. Toxicological information**

**Information on toxicological effects of the powder coating**
**Acute toxicity**
Skin corrosion/irritation: may cause an allergic skin reaction
Serious eye damage/irritation: no irritant effect
Respiratory or skin sensitisation: no sensitisation effect known
Germ cell mutagenicity: AMES test negative
Carcinogenicity: not carcinogenic
Reproductive toxicity: none known
STOT- SE: negative
STOT-RE: negative
Aspiration hazard: LC50 (4hrs,male mouse) >11,600 mg/m3
LC50 (5days, 6hrs/day,male mouse) >1,700 mg/m3

(2 weeks, rat) 70mg/m3 no toxic effect

**11. Ecological information**

**Aquatic toxicity: No further relevant information available**
**Persistence and degradability:** No further relevant information available
**Bio accumulative potential:** No further relevant information available
**Mobility in soil:** No further relevant information available
**Results of PBT and vPvB assessment**
**PBT:** Not applicable
**vPvB:** Not applicable
No further relevant information available

**12. Disposal considerations**

**Waste treatment methods**
Recommendation:
- Must not be disposed together with household garbage
- Do not allow product to reach the sewage system or watercourse

**13. Transport information**

**UN Number: Not classified**
**Transport hazard class: Not regulated**
**Marine Pollutant: No**
**Transport Hazard Class: Not regulated**
**Marine Pollutant: No**

**Safety, health and environmental regulations specific for the substances or mixture GHS label elements:**
The product is classified and labelled according to the Globally Harmonised System (GHS).
**Hazards Statements:**
- H340 May cause genetic defects

**Precautionary statements:**
- P261 Avoid breathing dust/fume

**14. Disposal Considerations**

**Waste Treatment Methods**
Dispose of in accordance with local regulations.
**Product**
Recommendations:
A disposal process that converts the waste into energy is recommended. Can be landfilled or incinerated, when I compliance with local regulations.

**Waste Key Number:** 080201
**Description:** Waste Coating Powders

**Uncleaned Packaging:**
Recommendation:
Empty containers can be landfilled, when in accordance with the local regulations. Properly emptied composite packaging is to dispose of as commercial waste (waste key-number 150105)

**15. Transport Information**

Not classified as dangerous in the meaning of transport regulations.

ADR/RID: in accordance with nota 1 of chapter 2.2.3.1.1

IMDG: in accordance with chapter 2.3.1.3

ICAO/IATA: in accordance with chapter 3.3.1.3

**UN Number**
Not applicable

**UN Proper Shipping Name**
Not applicable

**Transport Hazard Class(es)**
Not applicable

**Packaging Group**
Not applicable

**Environmental Hazards**
ADR/RID; IMDG; ICAO/IATA: None

**Marine Pollutant**
IMDG: No

**Transport in bulk according to Annex II of Marpol and the IBC Code**
Deliveries shall only be made based on appropriate packaging and in compliance with traffic laws

## 16. Regulations

**Safety, health and environmental regulations/legislation specific for the substance or mixture**
This product is non-dangerous in accordance with Directive 1999/45/EC

**National Legislation**
This safety data sheet has been prepared according to British legislation.

The product is labelled according to Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as amended (CHIP Regulations). The risk associated with the use of this product must be assessed in accordance with the control of Substances Hazardous to Health (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres Regulations.
Restricted to professional users.

**Chemical safety assessment**
No safety checks were carried out on the mixture.

## 17. Other Information

Full text of H phrases with no. appearing in section 3:

H302 – Harmful if swallowed

H314 – Causes severe skin burns and eye damage
H361F – Suspected of damaging fertility.
H373 – May cause damage to organs through prolonged or repeated exposure.
H410 – Very toxic to aquatic life with long lasting effects.

**Information taken from reference works and the literature**

Substance No. – CAS no: http://support.cas.org/content/chemical-subtances
http://echa.europa.eu/

Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC – http://echa.europa.eu/search-for-chemicals
http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB
http://www.cdc.gov/niosh/ipcs

Other directives, limitations and prohibitor regulations – Regulation (EC) No. 1907/2006
Directive 98/24/EC
Directive 2004/37/EC

Regulation (EC) No 1272/2008

EUR-LEX: http://eurlex.europa.eu/homepage.hmtl

Exposure limit for the pure substance - http://osha.europa.eu/OSHA

**Training advice**

Regulation (EC) No. 1907/2006
Directive 98/24/EC

**Further Information**

The information of the data sheet is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions, however, are beyond our knowledge and control. The product is not to be used for the purposes other than those specified under section 1 without written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this data sheet is to describe the product only in terms of health and safety requirements and should not, therefore be construed as guaranteeing specific properties.

**Glossary**

SU – Sector of use
PC – Product category
PROC – Process category
ERC – Environmental release category
AC – Article category
SpERC – Sector specific environmental release category (for ACEA uses)

ACEA – European automobile manufacturers association
CEPE – European council of producers and importers of paint, printing inks and artists' colours
OC – Operational condition
DOA – Duration of activity
LEV – Local exhaust ventilation
TRV – Technical room ventilation
RMM – Risk management measures
RPE – Respiratory protection equipment
DPE – Dermal protection equipment
WWTP- Waste water treatment plant (on-site)
STP – Sewage treatment plant (municipal)
SVHC – Substance of very high concern
LSI – Lead substance indicator
M(sperc) – Maximum volume of lead substance which can be used safely under conditions described by CEPE spERC
DNEL – Derived No Effect Level
DMEL – Derived minimum effect level
PNEC – Predicted No Effect Concentration
ECETOC TRA – Targeted risk assessment as proposed by European centre for ecotoxicology and toxicology of chemicals
RCR – Risk characterisation ratio