

1116179 V-11633 KELLY GREEN 25 KG DRUMS

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### **SECTION 1. IDENTIFICATION**

Product name : V-11633 KELLY GREEN 25 KG DRUMS

00000000001116179

Product code : RS FP 303051

Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250

Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

Disposal considerations : Dispose of wastes in an approved waste disposal facility.

**Emergency telephone number** 

CHEMTREC In-Country : (800)424-9300

Number

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

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Skin sensitisation : Category 1

Carcinogenicity : Category 1A

Specific target organ toxicity

- repeated exposure

: Category 1

**GHS Label element** 

Hazard pictograms





Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated

exposure.



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Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : inorganic pigment, metal oxide/hydroxide, ceramic material

# **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Co-Ti spinel green	68186-85-6	>= 90 - <= 100
nickel titanium trioxide	12035-39-1	>= 1 - < 5
Co-Al spinel blue	1345-16-0	>= 1 - < 5

### **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

If inhaled : Remove to fresh air.

If unconscious place in recovery position and seek medical

advice.

Never give anything by mouth to an unconscious person.

In case of skin contact : Wash off immediately with soap and plenty of water.

If a person feels unwell or symptoms of skin irritation appear,

consult a physician.

In case of eye contact : Rinse immediately with plenty of water and seek medical

advice.



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If swallowed : Do NOT induce vomiting.

Rinse immediately with plenty of water and seek medical

advice.

Most important symptoms and effects, both acute and

delayed

: May cause an allergic skin reaction.

May cause cancer.

Causes damage to organs through prolonged or repeated

exposure.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

Specific hazards during

firefighting

: Exposure to decomposition products may be a hazard to

health.

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

courses.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions. protective equipment and emergency procedures

: Ensure adequate ventilation.

Follow safe handling advice and personal protective

equipment recommendations.

**Environmental precautions** 

: Do not flush into surface water or sanitary sewer system.

Prevent product from entering drains.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while

observing environmental regulations.

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not get in eyes or mouth or on skin.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Do not use in areas without adequate ventilation. Keep away from heat and sources of ignition.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.



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# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Co-Ti spinel green	68186-85-6	TWA	0.02 mg/m3 (Cobalt)	ACGIH
nickel titanium trioxide	12035-39-1	TWA	1 mg/m3 (Nickel)	OSHA Z-1
		TWA	1 mg/m3 (Nickel)	OSHA P0
		TWA	0.015 mg/m3 (Nickel)	NIOSH REL
Co-Al spinel blue	1345-16-0	TWA	0.02 mg/m3 (Cobalt)	ACGIH

Engineering measures : Apply technical measures to comply with the occupational

exposure limits.

Provide adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Material : Protective gloves

Eye protection : Safety glasses with side-shields

Ensure that eyewash stations and safety showers are close

to the workstation location.

Protective measures : Wear suitable protective equipment.

Avoid contact with skin.

When using do not eat, drink or smoke.

Hygiene measures : Remove contaminated clothing and protective equipment

before entering eating areas.

Wash hands before breaks and immediately after handling

the product.

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

Appearance : powder

Colour : green

Odour : odourless

Odour Threshold : No data available



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pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : Not applicable

Burning rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

No data available

Relative density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : No data available

No data available

Explosive properties : No data available

Oxidizing properties : No data available

Refractive index : Not applicable



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Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous

reactions

: No data available

No data available

Conditions to avoid : Incompatible materials

Incompatible materials : Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

Hazardous decomposition

products

: Stable under normal conditions.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

inhalation (dust/mist/fume)

inhalation (vapour)

Skin

Eye contact Ingestion

### **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.

### Serious eye damage/eye irritation

Not classified based on available information.

# Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

# Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

May cause cancer.

IARC Group 1: Carcinogenic to humans

nickel titanium trioxide



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ACGIH Confirmed animal carcinogen with unknown relevance to

humans

Co-Ti spinel green 68186-85-6

Co-Al spinel blue 1345-16-0

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Known to be human carcinogen

nickel titanium trioxide 12035-39-1

### Reproductive toxicity

Not classified based on available information.

# 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.

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

### **Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

# **Components:**

Co-Al spinel blue:

Toxicity to fish : LC50 (Fish): 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 10,000 mg/l

Exposure time: 48 h

### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

### **Components:**



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Co-Ti spinel green:

Biodegradability : Remarks: No data available

Co-Al spinel blue:

Biodegradability : Remarks: No data available

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

**Components:** 

Co-Ti spinel green:

Bioaccumulation : Remarks: No data available

Co-Al spinel blue:

Bioaccumulation : Remarks: No data available

Mobility in soil

**Product:** 

Distribution among : Remarks: No data available

environmental compartments

**Components:** 

Co-Ti spinel green:

Distribution among : Remarks: No data available

environmental compartments

Co-Al spinel blue:

Distribution among : Remarks: No data available

environmental compartments

Other adverse effects

No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of wastes in an approved waste disposal facility.

#### **SECTION 14. TRANSPORT INFORMATION**

# International Regulation

**UNRTDG** 

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good



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**IMDG-Code** 

Not regulated as a dangerous good

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

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

**National Regulations** 

49 CFR DOT

Not regulated as a hazardous material

**SECTION 15. REGULATORY INFORMATION** 

TSCA list : TSCA 5a - Not relevant

TSCA\_12b - Not relevant

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product contains components that are reportable under

the regulation.

Massachusetts Right To Know

No components are subject to the Massachusetts Right to

Know Act.

Pennsylvania Right To Know

This product contains components that are reportable under

the regulation.

**New Jersey Right To Know** 

This product contains components that are reportable under

the regulation.

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

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 : Not in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory



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ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

### **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)

#### **SECTION 16. OTHER INFORMATION**

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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.