Date of compilation: 03/01/2019 Version: 1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product identifier: MIR - PIGMENTO GRANEL No 042 VERDE OXIDO CROMO 1.1 8020042 Chromium (III) oxide CAS: 1308-38-9 FC: 215-160-9 Index: Non-applicable REACH: 01-2119433951-39-XXXX 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Not defined Uses advised against: All uses not specified in this section or in section 7.3 1.3 Details of the supplier of the safety data sheet: JAURENA,S.A. Carretera del Mig, 203 08907 Hospitalet de Llobregat - Barcelona - Spain Phone.: +34 932632328 - Fax: +34 932631408 clientes@artmir.com www.jaurenaart.com 1.4 Emergency telephone number: +34 915620420 SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture: CLP Regulation (EC) No 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 Label elements: CLP Regulation (EC) No 1272/2008:

None

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Miscellaneous products

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS:	1308-38-9	Chromium (III) oxid	e Not classified	
Index:	215-160-9 Non-applicable 01-2119433951-39- XXXX	Regulation 1272/2008		100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

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3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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SECTION 4: FIRST AID MEASURES (continued)
Consult a doctor in case of discomfort showing the SDS for the product.
By inhalation:
In case of symptoms, move the person affected into fresh air.
By skin contact:
In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,), seek medical advice with this Safety data Sheet By eye contact:
Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.
By ingestion/aspiration:
In case of consumption in large quantities, it is recommended to seek medical assistance.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

5.2 Special hazards arising from the substance or mixture:

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

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SECTION 7: HANDLING AND STORAGE (continued)

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:5 °CMaximum Temp.:30 °CMaximum time:12 Month

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

		Short e	Short exposure		xposure
Identification		Systemic	Local	Systemic	Local
Chromium (III) oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1308-38-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-160-9	Inhalation	Non-applicable	2 mg/m ³	Non-applicable	0,5 mg/m ³

DNEL (General population):

		Short e	Short exposure		xposure
Identification		Systemic	Local	Systemic	Local
Chromium (III) oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1308-38-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-160-9	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,5 mg/m ³

PNEC:

Identification				
Chromium (III) oxide	STP	10 mg/L	Fresh water	0,0047 mg/L
CAS: 1308-38-9	Soil	3,2 mg/kg	Marine water	0,0047 mg/L
EC: 215-160-9	Intermittent	0,0047 mg/L	Sediment (Fresh water)	18,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1.31 ma/ka

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

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Product safety information sheet according to REACH (article 32)

MIR - PIGMENTO GRANEL No 042 VERDE OXIDO CROMO 8020042

Date of compilation: 03/01/2019 Version: 1 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. B.- Respiratory protection The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded. C.- Specific protection for the hands Pictogram PPF Labelling **CEN** Standard Remarks Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for Protective gloves against professional users/industrials, we recommend using minor risks CE III gloves in line with standards EN 420:2003+ Mandatory hand A1:2009 and EN ISO 374-1:2016 protection D.- Ocular and facial protection Pictogram PPE Labelling **CEN** Standard Remarks Clean daily and disinfect periodically according to Panoramic glasses against FN 166:2001 the manufacturer's instructions. Use if there is a EN ISO 4007:2018 splash/projections. risk of splashing. Mandatory face protection E.- Body protection Pictogram PPE Labelling **CEN** Standard Remarks Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is Work clothing recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is Anti-slip work shoes EN ISO 20347:2012 recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007 F.- Additional emergency measures It is not necessary to take additional emergency measures. **Environmental exposure controls:** In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds: With regard to Directive 2010/75/EU, this product has the following characteristics: 0 % weight V.O.C. (Supply): V.O.C. density at 20 °C: 0 kg/m³ (0 g/L) Average carbon number: Non-applicable Average molecular weight: Non-applicable SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties:

9.1 Information on basic physical and chemical propertie

For complete information see the product datasheet.

Appearance:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Oxidising properties:Non-applicable *Flammability:Flammability:Flash Point:Non-applicableFlammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Upper splosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *	Melting point/freezing point:	2435 °C	
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Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *	Flammability:		
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Lower flammability limit: Non-applicable * Upper flammability limit: Non-applicable * Explosive: Non-applicable * Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * Upper explosive limit: Non-applicable * Other information: Surface tension at 20 °C: Non-applicable * Non-applicable *	Flammability (solid, gas):		
Upper flammability limit: Non-applicable * Explosive: Non-applicable * Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * Other information: Surface tension at 20 °C: Non-applicable * Non-applicable *	Autoignition temperature:	Non-applicable *	
Upper flammability limit: Non-applicable * Explosive: Non-applicable * Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * Other information: Surface tension at 20 °C: Non-applicable * Non-applicable *	Lower flammability limit:	Non-applicable *	
Explosive: Non-applicable * Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * 2 Other information: Surface tension at 20 °C: Non-applicable *	·		
Lower explosive limit: Non-applicable * Upper explosive limit: Non-applicable * 2 Other information: Surface tension at 20 °C: Non-applicable *			
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Surface tension at 20 °C: Non-applicable *			
		Non-applicable *	
	Refraction index:	Non-applicable *	

SECTION 10: STABILITY AND REACTIVITY

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10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

10.5

Applicable for handling and storage at room temperature:

	Shock and friction Contact with air		Increase in temperature	Sunlight	Humidity	
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Ir						
	Acids	Water	Oxidising materials	Combustible materials	Others	
	Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases	

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met
 Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met IARC: Chromium (III) oxide (3)
 - Mutagenicity: Based on available data, the classification criteria are not met
 - Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met
 - Cutaneous: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
 - Skin: Based on available data, the classification criteria are not met
- H- Aspiration hazard:

Based on available data, the classification criteria are not met

Date of compilation: 03/01/2019 Version: 1 SECTION 11: TOXICOLOGICAL INFORMATION (continued) Other information: Non-applicable Specific toxicology information on the substances: Identification Acute toxicity Genus Chromium (III) oxide LD50 oral 5100 mg/kg Rat CAS: 1308-38-9 LD50 dermal Non-applicable EC: 215-160-9 LC50 inhalation Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not available

- **12.2 Persistence and degradability:** Not available
- 12.3 Bioaccumulative potential:
- Not available 12.4 Mobility in soil:

Not available

- **12.5 Results of PBT and vPvB assessment:** Product fails to meet PBT/vPvB criteria
- 12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non dangerous

Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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Product safety information sheet according to REACH (article 32)

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SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

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REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.: Non-applicable

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Non-applicable

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

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Koc: Partition coefficient of organic carbon

Date of compilation: 03/01/2019 Version: 1

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -