



SAFETY DATA SHEET

Issue date: 27 Nov. 2012

Section 1: Identification of the substance/mixture and of the company/undertaking

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| 1.1 Product identifier | Lime Tree Green, pigment for Linus Wall Paint |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | For outdoor and indoor painting. For painting on wood, concrete, wallpaper and other materials. Sector Use - SU: SU19 Building and construction work SU20 Health services SU21 Private households (= general public = consumers) SU22 Professional uses: Public domain Chemical Product Category: PC18 Ink and toners Process categories [PROC]: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) Environmental Release Categories: ERC 8C Wide dispersive indoor use resulting in inclusion into or onto a matrix (paint) ERC 8F Wide dispersive outdoor use resulting in inclusion into or onto a matrix (paint) |
| 1.3 Details of the supplier of the safety data sheet | |
| Supplier/Importer EU | Allbäck Linoljeprodukter AB |
| Address | Östra Balkåkravägen 18 SE-271 91 Ystad Sweden |
| Telephone number | +46-411-606 02 |
| Fax | +46-411-602 41 |
| Contact person | Sonja Allbäck |
| e-mail | allback@allbackpaint.com |
| 1.4 Emergency telephone number | 24 hours service is available at NHS Direct in UK: Phone 0845 46 47 or call 112 or 999 See. www.nhsdirect.nhs.uk |
| MSDS issued by | Ann Martens, Ramböll Sverige AB, +46 (0)10-615 54 47 |

Section 2: Hazards identification

2.1 Classification of the substance or mixture
Not classified as hazardous for health or environment.

2.2 Label elements
No hazard label required.

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2.3 Other hazards

Some iron oxides (Fe_3O_4) can self-ignite and has at the REACH registration received the classification *H252 Self-heating in large quantities; may catch fire*. This classification is not relevant for small packages of this product.

Section 3: Composition/information on ingredients

3.2 Mixtures

| EC-no | CAS-no/ REACH reg. no | Name of component | Conc. wt/wt | Classification | Com. |
|-----------|---|--|----------------|----------------|------|
| 243-746-4 | 20344-49-4/ 01- 2119457554 -33-0000 | Iron hydroxide oxide | 35-40 % | | WEL |
| 215-277-5 | 1317-61-9 | Iron oxide (Fe_3O_4) | 10-15 % | | WEL |
| 215-160-9 | 1308-38-9 REACH-nr 01- 2119433951 -39 | Chromium(III)oxide | 45-55 % | | WEL |

Explanation of abbreviations:
CAS-nr. = Chemical Abstracts Service; EU-nr (Einecs- or Elincsnr) = European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, DSD = Dangerous Substance Directive. CLP = Regulation Classification and Labelling of Packages.
Content specified as; %, %wt/wt, %vol/wt, %vol/vol, mg/m³, ppb, ppm, wt%, vol%.
WEL = The product have a workplace exposure limit, PBT = The product is declared since it's a PBT- or a vPvB-substance.

Section 4: First aid measures

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| 4.1 Description of first aid measures | |
| Inhalation | Move to fresh air and rest. |
| Skin contact | Wash the skin with water and soap or linseed soap. |
| Eye contact | Remove contact lenses. Rinse the eyes for a couple of minutes. If symptoms persist, seek a physician. |
| Ingestion | Drink copious amounts of milk or water. |
| 4.2 Most important symptoms and effects, both acute and delayed | |
| Inhalation | May cause some transient irritation to the respiratory tract. |
| Skin contact | Can be a mild irritant to the skin. |
| Eye contact | Provides transient mild irritation. |
| Ingestion | Iron oxides are toxic in larger amounts and can give constipation and stomach ache. In large amounts it can |



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| | cause bleeding from the stomach and gastrointestinal tracts and even CNS depression. |
| 4.3. Indication of any immediate medical attention and special treatment needed | Access to water for rinsing eyes at the working place. |

Section 5: Firefighting measures

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| 5.1 Extinguishing media a. Recommended Extinguishing media b. Not Recommended Extinguishing media | a. The product does not burn. Extinguish surrounding fire with foam, carbon dioxide, powder or water spray depending on what is burning b. Foam containing substances that are harmful for the environment, i.e. Perfluoro octane sulfonate (PFOS) and Nonyl ethoxylate |
| 5.2 Special hazards arising from the substance or mixture | None |
| 5.3 Advise for firefighters | Do not inhale fumes. Wear self-contained breathing apparatus for fire fighting if necessary. Cool surfaces exposed to the fire. |

Section 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures | |
| 6.1.1. For non-emergency personnel | Wash skin or contaminated clothes with water. |
| 6.1.2 For emergency responders | None specific. |
| 6.2 Environment precautions | None specific. Prevent discharge to the sewage system. |
| 6.3 Methods and material for containment and cleaning up 6.3.1. Surrounding embankment /sealing 6.3.2 Recommended cleaning up measures 6.3.3 Non-recommended measures | Brush or vacuum clean the product and collect. |
| 6.4 Reference to other sections | For personal protection see section 8. For disposal of waste, see section 13. |

Section 7: Handling and storage

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| 7.1 Precaution for safe handling | Avoid spills and prevent large quantities of the product to reach sewage system or surface water. Avoid eating, drinking and smoking in the working area. Wash hands after using the product. Remove contaminated clothing before meals are taken |
| 7.2 Condition for safe storage, including any incompatibilities | Store the product at room temperature. Store out of reach of children and away from food. |

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| 1308-38-9 | Chromium(III) oxide | <p>PNEC (aqua fresh water) 0,0047 mg/L</p> <p>PNEC (aqua marine water) 0,0047 mg/L</p> <p>PNEC aqua (intermittent release) 0,0047 mg/L</p> <p>PNEC STP 10 mg/L</p> <p>PNEC sediment (fresh water) 18,2 mg/kg sedimentDw</p> <p>PNEC sediment (marine water) 1,31 mg/kg sedimentDw</p> <p>PNEC jord 3,2 mg/kgDw</p> | <p>Workers</p> <p>Shorttime exposure local effect</p> <p>DNEL Inhalation 2 mg/m³</p> <p>Longtime exposure local effect</p> <p>DNEL Inhalation 0,5 mg/m³</p> <p>Consumer</p> <p>Longtime exposure local effect</p> <p>DNEL Inhalation 0,5 mg/m³</p> | |
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| Biological limit values | None |
| Recommended surveillance procedure | None |

8.2 Exposure controls

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| 8.2.1 Recommended technical control measures | None |
| 8.2.2 Individual protection measures, e.g. personal protection equipment | |
| Eye/face protection | None. |
| Skin protection | i) Use gloves of eg. nitrile, PVC or butyl. ii) Normal working clothes. No special protection |
| i) Hand protection (material, thickness, breakthrough time) ii) Other protection | |
| Respiratory protection | Not necessary. |
| 8.2.3 Environmental exposure limits | Avoid large leakage to surface water or sewage system |

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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| Appearance/Form /State | Solid powder |
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| Odour | None |
| pH | 3.5-8 (5 % solution) |
| Melting point/freezing point | >1000 °C |
| Flash point | Not relevant. |
| Flammability | Not flammable |
| Vapour pressure | Not relevant |
| Bulk density (shaken) | 0.53 kg/l |
| Solubility | <0.001 g/l (water). |
| Decomposition temperature | 180 °C (FeOOH) |
| Oxidizing properties | None. |

9.2 Other information

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Section 10: Stability and reactivity

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| 10.1 Reactivity | The product is not reactive during normal handling and storage conditions. |
| 10.2 Chemical stability | Stable at normal storing conditions |
| 10.3 Possibility of hazardous reactions | None |
| 10.4 Conditions to avoid | Do not store above normal room temperature. |
| 10.5 Incompatible materials | Strong acids, bases and oxidizing agents. |
| 10.6 Hazardous decomposition products | Chromium(III)oxide will oxidise to Chromium (VI) in contact with strong acids. Chromium VI is a sensitizer and carcinogenic. |

Section 11: Toxicological information

11.1 Information on toxicological effects

Iron is an essential metal for oxygen transport in the blood, but also toxic when overdosed.

Recommended daily intake for humans is 10-18 mg/day depending on sex, age etc. If overdosed, the symptoms below appears.

a) Acute toxicity

Short term exposure

Ingestion: The product gives constipation, stomach ache and in high dosages bleeding from the gastrointestinal tract and blood containing vomiting (HSDB).

Inhalation: Irritating for the respiratory system, but not sufficiently for classification.

Eye contact: Could cause mild transient irritation in contact with the eyes. The effect is mainly mechanical.

Skin contact: Gives no permanent effect on the skin. Can give rust spots on the skin. Not irritating in standardised tests, but the evaluation is difficult because of the staining effect of the product.

Long term exposure:

Ingestion: No data. Symptoms probably the same as for short term exposure.

Inhalation: Irritating for the respiratory system, but not sufficient for classification at long-term exposure.

Eye contact: Repeated exposure may cause mild irritation to the eyes.

Skin contact: Repeated contact might dry the skin and cause irritation or atopic eczema, but during normal use the risk is low.

b) Skin corrosion/irritation: The product is not corrosive or irritating to the skin.



c) Serious eye damage/irritation:

The product will not give serious eye damage or eye irritation.

d) Respiratory or skin sensitisation: The product is not sensitizing. However persons that already have a chromium allergy might react to the product.

e) Germ cell mutagenicity: No known effects.

f) Carcinogenicity: No known effects.

g) Reproductive toxicity: No known effects.

h) STOT-single exposure No known effects.

i) STOT-repeated exposures No known effects.

Section 12: Ecological information

12.1 Toxicity

Iron is naturally occurring in the crust of the earth in varying amount, but about 4.7 % is iron. The eco systems are therefore normally well adjusted to a natural iron level. Iron is an essential metal for most organisms and is needed for the cell respiration, however large amounts can cause local damages in the ecosystem.

Acute toxicity:

Iron (Data from Prevent, type of iron ion is not given):

EC50 Daphnia 48h: 5.2 mg/l

IC50 Algae 72h: 0.11 mg/l

Long term toxicity: The product will probably not have any adverse long term effect for the aquatic environment, but data is lacking.

Terrestrial organisms: The product is probably not harmful for terrestrial organism, but data is lacking.

Plants: The product is probably relatively harmless for plants, but data is lacking.

Effects on micro-organisms living in wastewater treatment plants

The product has no known effect on microorganisms living in wastewater treatment plants.

12.2 Persistence and degradability

Not relevant for inorganic substances.

12.3 Bioaccumulative potential

Not relevant for inorganic substances.

12.4 Mobility in soil

The product has some water solubility and iron will be solved from the product and be mobile in the eco systems.

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substance.

12.6 Other adverse effects

None known.



Section 13: Disposal consideration

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| 13.1 Waste treatment methods | <p>a) Emptied plastic package are sorted as plastic. The product can be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.</p> <p>b) There are no physical/chemical properties that may affect the waste treatment solutions.</p> <p>c) Larger residues should not be released to the sewage system. No special security measures concerning waste treatment methods are needed.</p> |
| Waste codes (EWC) | Depends where the waste is produced, but suitable codes are 02 03 03, 20 01 28 or 08 01 14. |
| The product is classified as hazardous waste | No. |
| Waste codes (EWC) for the container | Suitable code for the packages is 20 01 39. |
| A not thoroughly cleaned container is considered dangerous waste | No |
| Other information | See section 8 for personal protection equipment. |

Section 14: Transport information

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| General | Not regulated as hazardous goods |
| 14.1 UN number | - |
| 14.2 UN Proper Shipping Name | - |
| 14.3 Transport hazard class(es) | - |
| 14.4 Packing group | - |
| 14.5 Environmental hazards | - |
| 14.6 Special precautions for users | - |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | - |

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No relevant.

15.2 Chemical safety assessment
Chemical safety assessment is probably done for some of the ingredients, but Allbäck has no access to these assessments.

Section 16: Other information

Sources for data in this MSDS

- Prevent Database Chemical substances (<http://kemi.prevent.se/>)



- Toxnet, <http://toxnet.nlm.nih.gov/>
- ECHA, Guidance on information requirements and chemical safety assessment: Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system.

Advice on training: No training necessary

The safety data sheet is based on the REACH regulation EC 1907/2006 and the regulation EU 453/2010. Classification according to both the CLP regulation EC 1272/2008 and directives 67/548/EEC and 1999/45/EC. Names in section 3 are given either according to harmonised classified substances in Annex VI, CLP regulation EC/1272/2008, IUPAC name or other common used named chosen by the supplier. See article 18 in the CLP regulation.