As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:	Falu Rödfärg Knut&Foder
The product is available in several colour	s. This is a general data sheet for all of the product colours.

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

Area of use:

2

- 1. Professional outdoor painting
- 2. DIY outdoor painting

Uses advised against:

1.3. Details of the supplier of the safety data sheet

The supplier:	Stora Kopparbergs Bergslags AB, Falu Rödfärg Krongårdsvägen 6 SE 791 80 Falun Sweden			
Phone:	+46 - 23 78 23 25			
Fax:	+46 - 27 78 23 08			
Email address:	info@falurodfarg.com			

1.4. Telephone numbers for emergency situations

Emergency telephone number in Sweden:						112		
Telephone Centre	number	to	the	Swedish	Poisons	Information	+46 8 - 33 12 31	
Emergency telephone number at the company: +46 - 23 78 23 25								
Available outside office hours:					Yes			

HAZARDS IDENTIFICATION

No

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

2.1. Classification of the substance or mixture

As per regulation (EC) no. 1272/2008	The product does not meet the criteria for health, environmental or fire hazards.
As per directive 1999/45/EC and KIFS 2005:7	The product does not meet the criteria for health, environmental or fire hazards.

HEALTH

The product contains substances in small quantities (< 0.1%) that may lead to allergic reactions; therefore avoid direct contact and repeated skin contact with the product.

Operations that cause dust such as the sanding and cleaning of painted surfaces may give rise to mild skin and eye irritation. Wear respiratory protection when performing operations that cause dust.

ENVIRONMENT

The product is not classified as hazardous to the environment. The product contains small quantities (<0.2%) of preservatives.

FIRE

The product is not classified as flammable. Contains oxidized linseed oil which means there is a risk of spontaneous combustion in soaked rags, cotton waste and other porous building materials.

2.2. Labelling information

The product does not meet the criteria for health, environmental or fire hazards according to regulation (EC) no. 1272/2008.

The safety data sheet is available for professional use and will be provided on request as the product contains ingredients with occupational exposure limits.

Hazard statements:

As per regulation (EC) no. 1272/2008

None

Precautionary statements As per regulation (EC) no. 1272/2008

P102: Keep out of the reach of children P273: Avoid discharge to environment P401: Store protected from frost P501: Content/container to be handed to local collection point

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

Additional hazard information:

EUH208: Contains 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one. May cause an allergic reaction.

3. Other hazards

The results of PBT and vPvB assessments are not known for all ingredients substances. The amount of atmospheric pollutants emitted while the product is curing is low; VOC < 5 g per litre paint.

3

COMPOSITION/INFORMATION ON INGREDIENTS

Classification in accordance with CLP regulation 1272/2008/EC

Substance	Conc. [weight, %]	CAS no.	EC no. / REACH reg. no.	Substance with occupational exposure limit	Classification
Oxidized linseed oil	12 – 20	68649-95-6	272-038-8 01-211948487-20	Yes	-
Calcined kaolin	1 – 5	92704-41-1	296-473-8	Yes	-
Calcium silicate (wollastonite)	5 – 10	13983-17-0	237-772-5	Yes	-
Sodium benzoate	1-3.	532-32-1	208-534-8 01-2119460683-3 5	No	Eye irrit 2; H319
Amorphous silicon	1-2.	7631-86-9	231-545-4 01-2119379499-1 6	No	-
Quartz, respirable	<0.3	14808-60-7	238-4-878	Yes	STOT RE1; H372

Pigment depending on colour

White:					
Titanium dioxide	6 – 14	13463-67-7	236-675-5	Yes	-
Grey and off-white					
Titanium dioxide	6 – 14	13463-67-7	236-675-5		-
Iron(II,III)oxide	0.4 – 10	1317-61-9	215-277-5 01-2119457646-28		-
Yellow:					
Titanium dioxide	6 – 14	13463-67-7	236-675-5		-
Iron(III)oxide	0.1 – 10	1309-37-1	215-168-2 01-2119457614-35		-
Iron(II,III)oxide	0.4 – 10	1317-61-9	215-277-5 01-2119457646-28		-

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

i				
C.I. Pigment Yellow 42	0.5 – 10	51274-00-1	257-098-5 01-2119457554-33	-
Red:				
Iron(III)oxide	0.1 – 11.5	1309-37-1	215-168-2 01-2119457614-35	-
C.I. Pigment Yellow 42	4.5	51274-00-1	257-098-5 01-2119457554-33	-
Blue:				
Titanium dioxide	6 – 14	13463-67-7	236-675-5	-
Iron(II,III)oxide	0.4 – 10	1317-61-9	215-277-5 01-2119457646-28	-
Pigment blue 28 (cobalt aluminate blue spinel)	7	1345-16-0	310-193-6	-
Chromium(III)oxide	5	1308-38-9	215-160-9	-
Green:				
Titanium dioxide	6 – 14	13463-67-7	236-675-5	-
Iron(III)oxide	0.1 – 10	1309-37-1	215-168-2 01-2119457614-35	-
Iron(II,III)oxide	0.4 – 10	1317-61-9	215-277-5 01-2119457646-28	-
C.I. Pigment Yellow 42	0.5 – 10	51274-00-1	257-098-5 01-2119457554-33	-
Black:				
Iron(II,III)oxide	0.4 – 10	1317-61-9	215-277-5 01-2119457646-28	-

For full text of hazard statements, see item 16

4

FIRST AID MEASURES

4.1 Description of first aid measures					
Following inhalation:	Move the injured individual to fresh air. If the condition persists, contact a doctor.				
Following skin contact:	Remove splashed clothing and footwear. Wash skin with soap and plenty of water. Contact a doctor if the condition persists or worsens.				
Following eye contact:	Remove contact lenses, where applicable. Do not rub your eyes. Flush with copious amounts of water and contact a doctor if irritation persists.				

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

Following ingestion:	Rinse out mouth thoroughly. If the injured individual is fully conscious, provide one or two glasses of water or milk to drink. Contact a doctor if the condition persists.
4.2 Most important symptoms and effects	s, both acute and delayed
Inhalation:	Irritation in airways. The inhalation of dust from painted surfaces may cause respiratory difficulties, coughing and silicosis after prolonged exposure.
Skin contact:	Mild skin irritation. The product may trigger an allergic reaction in sensitized skin.
Eye contact:	Mild, transient irritation.
Ingestion:	No known effects.

4.3 Indication of any immediate medical attention and special treatment needed

Access to eyewash facility. Access to soap and water for washing splashed skin.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Foam, dry powder, CO2 or water mist.
Unsuitable extinguishing media:	For safety reasons, water extinguishers with powerful jets should not be used.

5.2 Special hazards arising from the substance or mixture

May, in the event of fire, cause noxious smoke that contains carbon monoxide, metal oxides, small quantities of NOx, halogenated substances and hydrogen chloride. Avoid inhaling the smoke – seek out fresh air.

May oxidize if spilled on to porous material such as rags, cotton waste and other building materials and generate heat sufficient for the material to spontaneously combust.

5.3 Advice for fire-fighters

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

6

Revision date: 11/05/2015

Use chemical protective clothing and breathing apparatus.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures

Ensure good ventilation. Avoid contact with the skin, eyes and clothes. Avoid ignition sources

For non-emergency personnel

Wash using soap and plenty of water.

For emergency responders

No special measures for minor discharges. In the case of major discharges, use chemical protective clothing and breathing apparatus.

6.2 Environmental precautions

Avoid discharge to environment.

6.3 Methods and material for containment and cleaning up

Contain and mop up the spill using an inert, porous material. If an organic material is used for mopping up, the material must be soaked in water immediately after use to prevent spontaneous combustion while waiting for destruction. Treat it like ordinary waste.

6.4 Reference to other sections

See section 8 for personal protective equipment. See section 13 for disposal considerations.

HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spills and prevent large quantities of the product from reaching drains and watercourses. Ensure good ventilation. Avoid contact with the eyes, skin and clothes. Remove contaminated clothes before taking meals. Wash hands after using the product. Wash contaminated clothes before wearing again.

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

7.2 Conditions for safe storage, including any incompatibilities

Keep inaccessible for children and separate from foodstuffs.

Store the paint in a sealed container in spaces not susceptible to freezing. The storage container must be well sealed and stored in a dry place. Do not store the product close to sources of heat, sparks or naked flames.

7.3 Specific end use(s)

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

1. Occupational exposure limit values in accordance with AFS 2011:18

Substance	CAS	TWA	PEL	PEL (15 min)	Notes Rmks.
Oil mist	-	1 mg/m ³	-	3 mg/m ³	
Dust, organic - inhalable	-	10 mg/m ³	-		2
Dust, organic - respirable	-	5 mg/m ³	-		2
Quartz - respirable	14808-60-7	0.1 mg/m ³	-		2 C, M
Titanium dioxide, total dust	13463-67-7	5 mg/m ³	-		2
Fibres, other, naturally crystalline (wollastonite)	-	0.5 fibre/ cm ³	-		27, 28
Iron oxide, (as Fe) respirable dust		3.5 mg/m ³	-		2
Cobalt, and non-organic compounds (as Co) - inhalable dust	-	0.02 mg/m ³	-		2 C, H, S
Chromium, and its non-org. (II, III) compounds (as Cr), - total dust	-	0.5 mg/m ³	-		2

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

2. DNEL values

IRON OXIDE (1317-61-9, 1309-37-1, 51274-00-1)

DNEL values for assessing occupational exposure risks:

Effects	Exposure route	Туре	DNEL
Chronic, local effects (Toxicity with repeated dose)	Inhalation	DNEL	3 mg/m³ (resp) 10 mg/m³ (inh)

OXIDIZED LINSEED OIL

DNEL values for assessing occupational exposure risks:

Effects	Exposure route	Туре	DNEL
Chronic, systemic effects	Inhalation	DNEL	49 mg/m ³
Chronic, systemic effects	Skin contact	DNEL	69.4 mg/kg body weight / day

OXIDIZED LINSEED OIL

DNEL values for assessing exposure risks for entire population:

Effects	Exposure route	Туре	DNEL
Chronic, systemic effects	Inhalation	DNEL	14.5 mg/m ³
Chronic, systemic effects	Skin contact	DNEL	41.7 mg/kg body weight / day
Chronic, systemic effects	Following ingestion	DNEL	8.33 mg/kg body weight / day

OXIDIZED LINSEED OIL

Aquatic PNEC value

PNEC (purification plant):

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

CHROMIUM OXIDE

DNEL values for assessing exposure risks for entire population:

Effects	Exposure route	Туре	DNEL
Chronic, local effects	Inhalation	DNEL	0.5 mg/m ³

CHROMIUM OXIDE

DNEL values for assessing occupational exposure risks

Effects	Exposure route	Туре	DNEL
Acute, local effects	Inhalation	DNEL	2 mg/m ³
Chronic, local effects	Inhalation	DNEL	0.5 mg/m ³

3. PNEC values_

CHROMIUM OXIDE

PNEC (freshwater):	0.0047 mg/l
PNEC (marine):	0.0047 mg/l
PNEC (occasional discharges):	0.0047 mg/l
PNEC (soil):	3.2 mg/kg dry earth

8.2 Exposure controls

Appropriate engineering controls

Wash hands before breaks, bathroom visits and after work. Ensure good ventilation. Avoid contact with the skin, eyes and clothes.

Ensure good ventilation and/or air extraction from the workspace in operations that cause dust such as the sanding and cleaning of painted surfaces.

Individual protection measures such as personal protective equipment

Eye/face protection

Use safety glasses or a face shield where there is a risk of splashing.

Skin/hand protection

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

Use work clothes with full-length sleeves and legs. Use gloves of e.g. PVC, nitrile rubber or butyl rubber.

Respiratory protection

Not necessary in normal conditions with good ventilation. Avoid inhaling dust during sanding and cleaning operations on painted surfaces. Use a particulate filter (EN 143) during potentially dust generating operations.

Environmental exposure controls

Do not empty into drains, soil or water courses. When sanding or cleaning painted surfaces, collect the dust and handle it in a safe manner that will prevent its spreading to the environment.

9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Viscous fluid
Colour:	The product is available in eight colours: white, off-white, grey, yellow, red, blue, green, black
Odour:	Linseed oil
pH value	Not determined
Melting point/freezing point:	Not determined
Boiling point:	Not determined
Flashpoint:	Not determined
Evaporation rate:	Not determined
Flammability:	Not determined. The product is not flammable
Vapour pressure:	Not determined
Relative density:	Not determined
Solubility:	Low water solubility. Emulsifiable in organic solvents.
Viscosity:	Not determined
Explosive properties:	None
Oxidizing properties:	None

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

9.2 Other information

VOC < 5 g/l

The amount of atmospheric pollutants emitted while the product is curing is low; VOC < 5 g per litre paint. The phase 1 limit is 150 g/ I, the phase 2 limit is 130 g/l for aqueous dispersion paint product category d (KIFS 2008:2, appendix 2).

10 STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive

10.2 Chemical stability

The product is stable during normal use and storage conditions.

10.3 Possibility of hazardous reactions

There is a risk of spontaneous combustion if product residue is left on cotton waste or rags, which may react with oxygen in the air.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Oxidizing agents, strong acids, strong alkalis.

10.6 Hazardous decomposition products

None with normal use.

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

11

12

Revision date: 11/05/2015

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Tests of the product not carried out.

a)	Acute toxicity	Oral: Linseed oil has a LD ₅₀ > 4986 mg/kg/kg body weight (OECD 401) Skin exposure: Linseed oil has a LD ₅₀ > 2000 mg/kg/kg body weight (OECD 402)
b)	Irritation	Prolonged skin contact may result in dry skin. Dust in eyes may cause irritation and pain. Dust in high concentrations may irritate the respiratory organs. Linseed oil does not cause irritation of the skin (OECD 431) or eyes (OECD 473).
c)	Corrosive effect	The product is not corrosive.
d)	Sensitization	The ingredient iron complexes and the cobalt aluminate blue spinel are sensitizing. Low levels of the ingredient preservatives may cause allergic skin reactions.
e)	Toxicity with repeated doses	The NOAEL for linseed oil is >1000 mg/kg body weight/day (OECD 422, in rats). Respirable quartz causes lung damage through prolonged or repeated exposure to the dust through inhalation.
f)	Carcinogenicity	Wollastonite - IARC group 3: not classifiable as a human carcinogen.
g)	Mutagenicity	Linseed oil is not a mutagen (OECD 471, 473, 476)
h)	Reproductive toxicity	Linseed oil presents no reproductive toxicity (OECD 422)

ECOLOGICAL INFORMATION

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

The product is not classified as hazardous to	the environment
12.1 Toxicity	
Oxidized linseed oil:	
Fish	LC50 > 100 mg/l (OECD 203, 96 h)
Daphnia magna	EC50 > 10 mg/l (OECD 2010, 48 h)
Algae	ErC50 > 10 mg/l (OECD 201, 72 h)
Inhibition of microbiological activity	EC50 > 25 000 mg/l
Tridecyl alcohol ethoxylate:	
Fish	LC50 > 1 – 10 mg/l (96 h, value estimated from similar substances)
Daphnia magna	EC50 > 10 – 100 mg/l (48 h, value estimated from similar substances)
Algae	ErC50 > 10 – 100 mg/l (72 h, value estimated from similar substances)
Calcined kaolin:	
Fish	LC50 > 1000 mg/l (96 h)
Daphnia magna	EC50 > 700 mg/l (48 h)
Algae	IC50 > 1000 mg/l (72 h)
Iron(III)oxide:	
Fish <i>Danio rerio</i>	LC50 > 50,000 mg/l (96 h)
Daphnia magna	EC50 > 100 mg/l (48 h)
Iron(II,III)oxide:	
Fish <i>Danio rerio</i>	LC50 > 50,000 mg/l (96 h)
Daphnia magna	EC50 > 100 mg/l (48 h)
Chromium oxide:	
Fish	LC50 > 10,000 mg/l (96 h)
Algae	EC50 > 848.6 µg/l (72 h)

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015	
<u>Titanium dioxide:</u>	
Fish <i>Leuciscus idus</i> (id)	LC0 > 1000 mg/l (48 h)
Escherichia coli	NOEC > 5000 mg/l
Pseudomonas fluorescens	NOEC > 5000 mg/l
C.I. Pigment Yellow 42:	
Fish <i>Danio rerio</i>	LC50 > 50,000 mg/l (96 h)
Daphnia magna	EC50 > 100 mg/l (48 h)
Sodium benzoate:	
Fish	LC50 > 100 mg/l (96 h, OECD 203)
Daphnia magna	EC50 > 100 mg/l (48 h, OECD 202)
Achromobacter sp.	EC50 > 100 mg/l (24 h)
Daphnia magna	NOEC: 51 mg/l (chronic, 21d, OECD 211)
Algae	ErC50 > 100 mg/l (72 h, OECD 201)
Propylene glycol:	
Fish Oncorhynchus mykiss	LC50: 40.613 mg/l (96h)
Green algae	EC50: 19,300 mg/l (96h)
Iron complex:	
Brachydanio rerio	LC50 ≥ 100 mg/l (96h)
Daphnia sp.	EC50: 23.7 mg/l (48h, OECD 202)
Algae	EC50: 29.4 mg/l (72h, OECD 201)
Bacteria	EC50 ≥ 1000 mg/l (3h, OECD 209)
Amorphous silicon:	
Danio rerio (Zebra fish)	LC50 > 5000 mg/l (96h, value estimated from similar substances)
Ceriodaphnia dubai (water flea)	EC50: 7,600 mg/l (48h, value estimated from similar substances)

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015	
<i>Selenastrum capricornutum</i> (green algae)	NOEC: 60 mg/l (48h, value estimated from similar substances) EC50: 120 mg/l (48h, value estimated from similar substances) EC10: 140 mg/l (48h, value estimated from similar substances)
C9-11 alcohol ethoxylate:	
Oncorhynchus mykiss (rainbow trout)	LD50 > 1 - 10 mg/l (96h, OECD 203)
Quaternary C12-14 alkyl methyl amine etho	xylate methyl chloride
Fish	LC50 > 10 - 100 mg/l (96h)
Daphnia sp.	EC50 > 1 - 10 mg/l (48h)
Algae	EC50 > 1 - 10 mg/l (72h)
4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:	
Oncorhynchus mykiss (rainbow trout)	LC50: 0.0027 mg/l (96h)
Daphnia magna (water flea)	EC50: 0.0052 mg/l (48h) EC50: 0.02 mg/l
<i>Selenastrum capricornutum</i> (green algae)	EbC50: 0.048 mg/l (72h, OECD 201) ErC50: 0.077 mg/l (72h, OECD 201)
lodo-2-propynyl butyl carbamate	
<i>Oncorhynchus mykiss</i> (rainbow trout) <i>Daphnia magna</i> (water flea) <i>Scenedesmus Subspicatus</i> (algae) Bacteria (activated sludge)	LC50: 0,067 mg/l (96h, OECD 203 or equivalent) EC50: 0.16 mg/l (48h) ErC50: 0.053 mg/l (72h) EC50: 44 mg/l (3h)
2-Octyl-2H-isothiazol-3-one:	
Oncorhynchus mykiss (rainbow trout)	LC50: 0,047 mg/l (96h, OECD 203 or equivalent)
Daphnia magna (water flea)	EC50: 032 mg/l (48h, OECD 202 or equivalent)

12.2 Persistence and degradability

The surfactant tridecyl alcohol ethoxylate fulfils the criteria for biological degraded ability according to the detergent regulation 648/2004/EC.

Oxidized linseed oil:

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015	
Biodegradability:	Readily degradable (OECD 201B)
Tridecyl alcohol ethoxylate:	
Biodegradability:	Readily degradable (> 60 % BOD, 28 days, closed bottle test OECD 301D)
Calcined kaolin:	
Biodegradability:	Not biodegradable
<u>Titanium dioxide:</u>	
Biodegradability:	Not biodegradable
<u>Xanthan gum:</u>	
Biodegradability:	BOD approx 200 g O₂/kg xanthan gum COD approx 1600 g O₂/kg xanthan gum
Sodium benzoate:	
Biodegradability:	Readily degradable (OECD 301B)
Propylene glycol:	
Biodegradability:	Readily degradable
C9-11 alcohol ethoxylate:	
Biodegradability:	Readily degradable (OECD 301D)
Quaternary C12-14 alkyl methyl amine etho	xylate methyl chloride
Biodegradability:	Readily degradable (OECD 301D)
lodo-2-propynyl butyl carbamate	
Biodegradability:	Not fully biodegradable, 21-25% OECD 301F or equivalent, 10-day window: Not OK
2-Octyl-2H-isothiazol-3-one:	
Biodegradability:	Not readily degradable, 25%, methods not specified

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

12.3 Bioaccumulative potential

Oxidized linseed oil:

Partition coefficient n-octanol /water Log Kow > 6

Calcined kaolin is not considered to be bioaccumulative.

<u>Titanium dioxide</u> is considered unlikely to be bioaccumulative.

Sodium benzoate: Log Pow: -2.27 (estimated value)

<u>Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride</u>: Unlikely to be bioaccumulative as the substance is biodegradable and soluble in water.

<u>lodo-2-propynyl butyl carbamate</u> BCF: 16-36 (estimated value)

Partition coefficient n-octanol /water

4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:	log Pow 3.59 (estimated)
lodo-2-propynyl butyl carbamate	log Pow 2.81 (OECD 107)
2-Octyl-2H-isothiazol-3-one:	log Pow 2.47 (no method provided)

12.4 Mobility in soil

Oxidized linseed oil:

Coefficient of absorption

Log Koc > 4.96 at 20 °C ((Q)SAR)

Calcined kaolin is insoluble in water.

Iron(II,III)oxide and iron(III)oxide are not expected to be mobile in soil.

12.5 Results of PBT and vPvB assessment

Oxidized linseed oil, wollastonite, quartz, calcined kaolin, amorphous silicon and tridecyl alcohol ethoxylate do not meet the criteria for PBT or vPvB substances according to REACH appendix VIII. C9-11 alcohol ethoxylate and Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride are not considered to be PBT or vPvB. Other ingredients have not been assessed.

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

12.6 Other adverse affects

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contents/containers to be handed to local collection point.

14 TRANSPORT INFORMATION

The product Knut&Foder Is not subject to the legislation on the transport of dangerous goods.

UN number:	Not applicable
Proper shipping name:	Not applicable
Transport hazard class:	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions:	Not applicable
Transport in bulk according to Annex II of Marnol 73/78 and the IBC Code:	Not regulated

15

REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation	
specific for the substance or mixture The European Parliament and European Council Enactment (EC) no. 2037/2000 dated 29 June 2000 on substances that deplete the ozone layer:	Not applicable
The European Parliament and European Council Enactment (EC) no. 850/2004 dated 29 April 2004 on persistent organic pollutants:	Not applicable
Council Directive 79/117/EEC dated 21 December 1978 on the prohibition against the marketing and use of plant protection products that contain certain active ingredients:	Not applicable
The European Parliament and European Council Enactment (EC) no. 689/2008 dated 17 June 2008 on the export and import of hazardous chemicals:	Not applicable

As per regulation (EC) no. 1907/2006

Falu Rödfärg Knut&Foder

Version: 2.0/En

Revision date: 11/05/2015

15.2 Chemical safety assessment

Chemical safety assessments according to REACH article 14 have been issued for the following ingredients substances:

Oxidized linseed oil

Iron(III)oxide (1309-37-1, 215-168-2)

Iron(II,III)oxide (1317-61-9, 215-277-5)

C.I. Pigment Yellow 42 (51274-00-1, 257-098-5)

16 OTHER INFORMATION

Hazard codes, risk and safety phrases in plain text as per KIFS 2005:7; from sections 2 and 3:				
Xi	Irritating			
Xn	Harmful to health			
R36	Irritates the eyes			
R48/20	Hazardous: risk of serious harm to health with prolonged exposure through inhalation.			
Hazard statements, risk and safety statements in plain text as per CLP; from sections 2 and 3:				
H319	Causes severe eye irritation			
H372	Causes harm to eyes through prolonged or repeated exposure			
Notes to the occupational exposure limit values list, AFS 2011:18, mentioned in section 8:				
TWA	Time weighted average value			
PEL	Ceiling limit			
PEL	Short term limit			
2	The definition of inhalable, respirable and total dust.			
27	Definition of fibres referred to.			
28	Wollastonite is a mineral that can occur as a natural, crystalline fibre			
С	The substance is carcinogenic			
Н	The substance is easily absorbed through the skin			
М	Medical checks may be necessary when handling the substance			
S	The substance is sensitizing			

As per regulation (EC) no. 1907/2006

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Version: 2.0/En

Revision date: 11/05/2015

Other abbreviation	ons:	
PBT	Persistent Bioaccumulative Toxic	
vPvB	Very persistent and very bioaccumulative	
DNEL	Derived no-effect level	
PNEC	Predicted no-effect concentration	
NOAEL	No Observed Adverse Effect Level	
LD ₅₀	Lethal dose 50% (the dose at which 50% of the test population dies)	
LC ₅₀	Lethal concentration 50% (the concentration at which 50% of the test population dies)	
EC ₅₀	The concentration at which 50% of the test organisms are immobilized.	
IC ₅₀	The concentration of a substance that produces 50% growth inhibition.	
BCF	Bio-concentration factor	
Log P _{ow}	The ratio between the concentration of a substance in the octanol phase and its concentration in the aqueous phase at equilibrium. Demonstrates potential bioaccumulation. Can also be expressed as log K_{ow}	
Log K _{ow}	See log Pow above	
KIFS	Code of Statutes of the Swedish Chemicals Agency	

Revision

This version of the safety data sheet replaces all previous versions.

This safety data sheet (SDS) was prepared in accordance with regulation (EC no.) 1907/2006 REACH, article 31 and appendix II, with amendments.

The contents are intended to provide appropriate safety measures for handling the substance. It is the responsibility of the recipient of

this safety data sheet to pass on the information.

The employer must inform the employees concerned of the health and safety risks associated with hazardous chemical substances that are present at the workspace and how to avoid them. The employer must ensure that the employees concerned have understood the information.

Document history

Version	Date	Remark
1	20150417	First issue
2	20150511	Amendments in sections 2 and 7.