



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	STEEL-IT 2203 Sinco Alkyd Primer
Registration number	-
Synonyms	None.
Product code	2203
Issue date	21-June-2012
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	Paint / Industrial coating.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer	Stainless Steel Coatings, Inc
Address	835 Sterling Road, South Lancaster, MA, 01561
Telephone number	+1 (978)365-9828
e-mail	sds@steel-it.com
Supplier	IHT GmbH Industrial Products
Address	Fasaneweg 2 64380 Rossdorf Germany
Telephone number	+49-6071/74416
Fax	+49-6071/951535
e-mail	iht.gmbh@t-online.de
Contact person	Kurt H.C. Böttcher

1.4. Emergency telephone number	+1-800-424-9300, CHEMTREC
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	F;R11, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Repr. Cat. 3;R62-63, Xn;R48/20, Xi;R38, R43-67, N;R51/53
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Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
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Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Germ cell mutagenicity	Category 1B	H340 - May cause genetic defects.
Carcinogenicity	Category 1B	H350 - May cause cancer.
Reproductive toxicity	Category 2	H361d - Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 2 (Lung)	H373 - May cause damage to organs (Lung) through prolonged or repeated exposure.

Environmental hazards

Hazardous to the aquatic environment,
long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with
long lasting effects.

Hazard summary**Physical hazards**

Highly flammable.

Health hazards

May cause cancer. May cause heritable genetic damage. Irritating to skin. May cause sensitisation by skin contact. Also harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Vapours may cause drowsiness and dizziness. Possible risk of irreversible effects.

Environmental hazards

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards

Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation.

Main symptoms

Sensitisation. Skin irritation. Drowsiness and dizziness.

2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:**

Ligroine, Nickel, Talc, Toluene

Hazard pictograms**Signal word**

Danger

Hazard statements

H225 - Highly flammable liquid and vapour.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
H317 - May cause an allergic skin reaction.
H373 - May cause damage to organs (Lung) through prolonged or repeated exposure.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361d - Suspected of damaging the unborn child.

Precautionary statements**Prevention**

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P280 - Wear protective gloves and eye/face protection.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P261 - Avoid breathing mist/vapours/spray.
P273 - Avoid release to the environment.

Response

P370 + P378 - In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
P391 - Collect spillage.

Storage

P405 - Store locked up.
P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

Not applicable.

2.3. Other hazards

Not available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Iron oxide	10-20	1309-37-1 215-168-2	-	-	
Classification:	DSD: -				
	CLP: -				
Ligroine	10-20	8032-32-4 232-453-7	-	649-263-00-9	
Classification:	DSD: F+;R12, Carc. Cat. 2;R45, Muta. Cat. 2;R46, Repr. Cat. 3;R62-63, Xi;R38, R67, N;R51/53				
	CLP: Flam. Liq. 1;H224, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Muta. 1B;H340, Carc. 1B;H350, Repr. 2;H361, Aquatic Chronic 2;H411				
Talc	10-20	14807-96-6 238-877-9	-	-	
Classification:	DSD: Xn;R48/20				
	CLP: STOT RE 2;H373				
Toluene	5-10	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	DSD: F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67				
	CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373				
Zinc oxide	5-10	1314-13-2 215-222-5	-	030-013-00-7	
Classification:	DSD: N;R50/53				
	CLP: Aquatic Chronic 1;H410				
Barium sulphate	2-5	7727-43-7 231-784-4	-	-	#
Classification:	DSD: -				
	CLP: -				
Chromium	2-5	7440-47-3 231-157-5	-	-	#
Classification:	DSD: -				
	CLP: -				
Ethylbenzene	2-5	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	DSD: F;R11, Xn;R20				
	CLP: Flam. Liq. 2;H225, Acute Tox. 4;H332				
P-xylene	2-5	106-42-3 203-396-5	-	601-022-00-9	#
Classification:	DSD: R10, Xn;R20/21, Xi;R38				
	CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332				
Trizinc bis(orthophosphate)	2-5	7779-90-0 231-944-3	-	030-011-00-6	
Classification:	DSD: N;R50/53				
	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene	1-2	98-56-6 202-681-1	-	-	
Classification:		DSD: R10, Xi;R36/37/38, R52			
		CLP: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335			
Distillates (petroleum), hydrotreated light	1-2	64742-47-8 265-149-8	-	649-422-00-2	
Classification:		DSD: R10, Xn;R65, Xi;R38, R67, N;R51-53			
		CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Chronic 2;H411			
Nickel	1-2	7440-02-0 231-111-4	-	028-002-00-7	
Classification:		DSD: Carc. Cat. 3;R40, T;R48/23, R43			
		CLP: Skin Sens. 1;H317, Carc. 2;H351, STOT RE 1;H372			
O-xylene	1-2	95-47-6 202-422-2	-	601-022-00-9	#
Classification:		DSD: R10, Xn;R20/21, Xi;R38			
		CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
Xylene	1-2	1330-20-7 215-535-7	-	601-022-00-9	#
Classification:		DSD: R10, Xn;R20/21, Xi;R38			
		CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332			
2-Butanone oxime	<1	96-29-7 202-496-6	-	616-014-00-0	
Classification:		DSD: Carc. Cat. 3;R40, Xn;R21, Xi;R41, R43			
		CLP: Acute Tox. 4;H312, Skin Sens. 1;H317, Eye Dam. 1;H318, Carc. 2;H351			
Octanoic acid, cobalt salt	<1	6700-85-2 229-744-6	-	-	
Classification:		DSD: Carc. Cat. 3;R40			
		CLP: Carc. 2;H351			

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information No specific first aid measures noted.

4.1. Description of first aid measures

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact Wash area with soap and water. Get medical attention if irritation develops or persists.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately.

Ingestion Get medical attention if any discomfort occurs.

4.2. Most important symptoms and effects, both acute and delayed Sensitisation. Skin irritation. Headaches, dizziness and nausea.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid. Material will float and can be re-ignited on surface of water. Containers may explode when heated.

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Foam. Dry chemical. Water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus.

Special fire fighting procedures Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Eliminate all sources of ignition. Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 for personal protective equipment.

For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Prevent entry into waterways, sewer, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Liquid Spills: Absorb with sand or other non-combustible absorbent material.

Never return spills in original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Wear personal protective equipment. The product is highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Use only non-sparking tools. Use only with adequate ventilation. Vapours are heavier than air and may spread along floors. Pregnant women should not work with the product, if there is the least risk of exposure. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid inhalation of vapours and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Keep container tightly closed and in a well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Store in closed original container at room temperature. Store away from incompatible materials.

7.3. Specific end use(s) Paint / Industrial coating.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Barium sulphate (CAS 7727-43-7)	TWA	4 mg/m ³	Inhalable fraction.
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	1,5 mg/m ³ 140 mg/m ³	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm 88 mg/m ³	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
O-xylene (CAS 95-47-6)	TWA	20 ppm	
		440 mg/m3	
P-xylene (CAS 106-42-3)	TWA	100 ppm	
		440 mg/m3	
Toluene (CAS 108-88-3)	TWA	100 ppm	
		190 mg/m3	
Trizinc bis(orthophosphate) (CAS 7779-90-0)	TWA	50 ppm	Inhalable fraction.
		2 mg/m3	
Xylene (CAS 1330-20-7)	TWA	0,1 mg/m3	Respirable fraction.
		440 mg/m3	
Zinc oxide (CAS 1314-13-2)	TWA	100 ppm	Respirable fume.
		1 mg/m3	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Barium sulphate (CAS 7727-43-7)	AGW	3 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	AGW	10 mg/m3	Inhalable fraction.
		2 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	AGW	440 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	AGW	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
O-xylene (CAS 95-47-6)	AGW	440 mg/m3	
		100 ppm	
P-xylene (CAS 106-42-3)	AGW	440 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	AGW	190 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	AGW	200 mg/m3	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Barium sulphate (CAS 7727-43-7)	TWA	0,5 mg/m3
Chromium (CAS 7440-47-3)	TWA	2 mg/m3
		884 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	200 ppm
		442 mg/m3
O-xylene (CAS 95-47-6)	STEL	100 ppm
		442 mg/m3
P-xylene (CAS 106-42-3)	STEL	100 ppm
		442 mg/m3
Toluene (CAS 108-88-3)	STEL	221 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Ethylbenzene (CAS 100-41-4)	800 mg/g	Mandelsäure plus Phenylglyoxylsäure	Creatinine in urine	*
O-xylene (CAS 95-47-6)	1 mg/l	Ethylbenzol	Blood	*
	2 g/l	Methylhippur(Tc lur-)säure	Urine	*
P-xylene (CAS 106-42-3)	1,5 mg/l	Xylol	Blood	*
	2 g/l	Methylhippur(Tc lur-)säure	Urine	*
Toluene (CAS 108-88-3)	1,5 mg/l	Xylol	Blood	*
	3 mg/l	o-Kresol	Urine	*
Xylene (CAS 1330-20-7)	1 mg/l	Toluol	Blood	*
	2 g/l	Methylhippur(Tc lur-)säure	Urine	*
	1,5 mg/l	Xylol	Blood	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
2-Butanone oxime (CAS 96-29-7)	Workers	Dermal	2,5 mg/kg/day	Acute Systemic effects
		Dermal	1,3 mg/kg/day	Long term Systemic effects
		Inhalation	9 mg/m3	Long term Systemic effects
Barium sulphate (CAS 7727-43-7)	Workers	Inhalation	3,33 mg/m3	Long term Local effects
		Inhalation	10 mg/m3	Long term Local effects
		Inhalation	10 mg/m3	Long term Systemic effects
Ethylbenzene (CAS 100-41-4)	Workers	Dermal	180 mg/kg	Long term Systemic effects
		Inhalation	77 mg/m3	Long term Systemic effects
Iron oxide (CAS 1309-37-1)	Workers	Inhalation	293 mg/m3	Acute Local effects
		Inhalation	10 mg/m3	Long term exposure local effects
		Inhalation	10 mg/m3	Long term exposure systemic effects
P-xylene (CAS 106-42-3)	Workers	Dermal	3182 mg/kg/24h	Long term exposure systemic effects
		Inhalation	442 mg/m3	Acute - local effects
		Inhalation	442 mg/m3	Acute - systemic effects
		Inhalation	221 mg/m3	Long term exposure local effects
Toluene (CAS 108-88-3)	Workers	Inhalation	221 mg/m3	Long term exposure systemic effects
		Dermal	384 mg/kg/day	Long term Systemic effects
		Inhalation	384 mg/m3	Acute Local effects
		Inhalation	384 mg/m3	Acute Systemic effects
		Inhalation	192 mg/m3	Long term Local effects
Trizinc bis(orthophosphate) (CAS 7779-90-0)	Workers	Inhalation	192 mg/m3	Long term Systemic effects
		Dermal	83 mg/kg	Long term exposure systemic effects
Xylene (CAS 1330-20-7)	Workers	Inhalation	5 mg/m3	Long term exposure systemic effects
		Dermal	180 mg/kg	Long term Systemic effects
		Inhalation	77 mg/m3	Long term Systemic effects

Components	Type	Route	Value	Form
Zinc oxide (CAS 1314-13-2)	Workers	Inhalation	289 mg/m3	Acute Local effects
		Inhalation	289 mg/m3	Acute Systemic effects
		Dermal	83 mg/kg/day	Long term Systemic effects
		Inhalation	5 mg/m3	Long term Systemic effects

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
2-Butanone oxime (CAS 96-29-7)	Aqua (freshwater)	Water	0,256 mg/l	
	Aqua (intermittent releases)	Water	0,118 mg/l	
	Sewage Treatment Plant	Not applicable	177 mg/l	
Barium sulphate (CAS 7727-43-7)	Aqua (freshwater)	Water	227,8 mg/l	
	Sediment (freshwater)	Not applicable	792,7 mg/kg	
	Sewage Treatment Plant	Not applicable	50,1 mg/l	
Ethylbenzene (CAS 100-41-4)	Soil	Soil	207,7 mg/kg	
	Aqua (freshwater)	Water	0,1 mg/l	
	Aqua (intermittent releases)	Water	0,1 mg/l	
	Aqua (marine water)	Water	0,01 mg/l	
	Oral	Oral	0,02 g/kg	
	Sediment (freshwater)	Not applicable	13,7 mg/kg	
	Sewage Treatment Plant	Not applicable	9,6 mg/l	
O-xylene (CAS 95-47-6)	Soil	Soil	2,68 mg/kg	
	Aqua (freshwater)	Not applicable	0,042 mg/l	
P-xylene (CAS 106-42-3)	Aqua (marine water)	Not applicable	0,042 mg/l	
	Aqua (freshwater)	Not applicable	0,25 mg/l	
	Aqua (intermittent releases)	Not applicable	0,25 mg/l	
	Aqua (marine water)	Not applicable	0,25 mg/l	
	Sediment (freshwater)	Not applicable	14,33 mg/kg	
	Sediment (marine water)	Not applicable	14,33 mg/kg	
	Sewage Treatment Plant	Not applicable	5 mg/l	
Toluene (CAS 108-88-3)	Soil	Not applicable	2,41 mg/kg	
	Aqua (freshwater)	Not applicable	0,68 mg/l	
	Aqua (intermittent releases)	Not applicable	0,68 mg/l	
	Aqua (marine water)	Not applicable	0,68 mg/l	
	Sediment (freshwater)	Not applicable	16,39 mg/kg	
	Sediment (marine water)	Not applicable	16,39 mg/kg	
	Sewage Treatment Plant	Not applicable	13,61 mg/l	
Trizinc bis(orthophosphate) (CAS 7779-90-0)	Soil	Not applicable	2,89 mg/kg	
	Aqua (freshwater)	Not applicable	20,6 µg/l	
	Aqua (marine water)	Not applicable	6,1 µg/l	
	Sediment (freshwater)	Not applicable	117,8 mg/kg	
	Sediment (marine water)	Not applicable	56,5 mg/kg	
	Sewage Treatment Plant	Not applicable	52 µg/l	
Xylene (CAS 1330-20-7)	Soil	Not applicable	35,6 mg/kg	
	Aqua (freshwater)	Water	0,327 mg/l	

Components	Type	Route	Value	Form
Zinc oxide (CAS 1314-13-2)	Aqua (intermittent releases)	Water	0,327 mg/l	
	Aqua (marine water)	Water	0,327 mg/l	
	Sediment (freshwater)	Not applicable	12,46 mg/kg	
	Sediment (marine water)	Not applicable	12,46 mg/kg	
	Sewage Treatment Plant	Not applicable	6,58 mg/l	
	Soil	Soil	2,31 mg/kg	
	Aqua (freshwater)	Water	20,6 µg/l	
	Aqua (marine water)	Water	6,1 µg/l	
	Sediment (freshwater)	Not applicable	117,8 mg/kg	
	Sediment (marine water)	Not applicable	56,5 mg/kg	
	Sewage Treatment Plant	Not applicable	52 µg/l	
	Soil	Not applicable	35,6 mg/kg	

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Use approved safety goggles or face shield.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- Other Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. Nitrile chemical resistant gloves are recommended.

Respiratory protection Use respiratory equipment with combination filter, type A2/P2.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Red liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Red.
Odour	Characteristic of solvents.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	135 - 211,1 °C (275 - 412 °F)
Flash point	4,4 °C (40 °F) Closed cup
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0,9 %

Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	> 1
Relative density	1,426 (77°F)
Solubility(ies)	Moderate soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
VOC (Weight %)	473 g/l Test method: Product Formulation Data

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Heat, sparks, flames. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon dioxide. Carbon oxides.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion	Ingestion may cause nausea, headache and dizziness.
Inhalation	Vapours may cause drowsiness and dizziness.
Skin contact	Causes skin irritation.
Eye contact	May cause eye irritation on direct contact.

Symptoms Sensitisation. Skin irritation. Headaches, dizziness and nausea.

11.1. Information on toxicological effects

Acute toxicity Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation.

Components	Species	Test results
2-Butanone oxime (CAS 96-29-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	184 mg/kg
<i>Oral</i>		
LD50	Rat	930 mg/kg
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5,28 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	18156 mg/kg

Components	Species	Test results
<i>Inhalation</i>		
LC50	Rat	55000 mg/m ³
<i>Oral</i>		
LD50	Rat	3500 mg/kg
Ligroine (CAS 8032-32-4)		
Acute		
<i>Inhalation</i>		
LC50	Rat	3400 mg/l, 4 Hours
<i>Other</i>		
LD50	Mouse	40 mg/kg
O-xylene (CAS 95-47-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Rat	6350 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	4300 mg/kg
P-xylene (CAS 106-42-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Oral</i>		
LD50	Rat	3523 - 8600 mg/kg
Toluene (CAS 108-88-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	14,1 ml/kg
<i>Inhalation</i>		
LC50	Rat	49000 mg/m ³ , 4 Hours
<i>Oral</i>		
LD50	Rat	636 mg/kg
Xylene (CAS 1330-20-7)		
Acute		
<i>Oral</i>		
LD50	Rat	4300 mg/kg
Zinc oxide (CAS 1314-13-2)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5 g/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	May cause eye irritation on direct contact.	
Respiratory sensitisation	None known.	
Skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	May cause genetic defects.	
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Chromium (CAS 7440-47-3)	3 Not classifiable as to carcinogenicity to humans.	
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
Iron oxide (CAS 1309-37-1)	3 Not classifiable as to carcinogenicity to humans.	
Nickel (CAS 7440-02-0)	2B Possibly carcinogenic to humans.	
O-xylene (CAS 95-47-6)	3 Not classifiable as to carcinogenicity to humans.	
P-xylene (CAS 106-42-3)	3 Not classifiable as to carcinogenicity to humans.	
Talc (CAS 14807-96-6)	2B Possibly carcinogenic to humans.	
	3 Not classifiable as to carcinogenicity to humans.	
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.	

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure: Lungs.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test results
2-Butanone oxime (CAS 96-29-7)			
Aquatic			
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	777 - 914 mg/l, 96 hours
Barium sulphate (CAS 7727-43-7)			
Aquatic			
Crustacea	EC50	Tubificid worm (<i>Tubifex tubifex</i>)	28,61 - 38,03 mg/l, 48 hours
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Daphnia	2,1 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	32 - 88 mg/l, 96 hours
		Fathead minnow (<i>Pimephales promelas</i>)	12,1 mg/l, 96 hours
O-xylene (CAS 95-47-6)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0,78 - 2,51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	5,59 - 11,6 mg/l, 96 hours
P-xylene (CAS 106-42-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	3,55 - 6,31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	2,6 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	5,46 - 9,83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (<i>Oncorhynchus kisutch</i>)	5,5 mg/l, 96 hours
Trizinc bis(orthophosphate) (CAS 7779-90-0)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	0,09 mg/l, 96 hours
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	8 mg/l, 96 Hours
Zinc oxide (CAS 1314-13-2)			
Aquatic			
Crustacea	LC50	Water flea (<i>Daphnia magna</i>)	0,098 mg/l, 48 Hours

12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow)

Toluene 2,73

O-xylene	3,12
P-xylene	3,15
Ethylbenzene	3,15
Xylene	3,2

Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of waste and residues in accordance with local authority requirements.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.
EU waste code	08 01 17*
Disposal methods/information	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14: Transport information

ADR

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
Tunnel restriction code	D/E
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
Labels required	3
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint
14.3. Transport hazard class(es)	3

Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	Yes
Labels required	Not available.
ERG Code	3L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number	UN1263
14.2. UN proper shipping name	Paint, Marine pollutant
14.3. Transport hazard class(es)	3
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	Yes
Labels required	Not available.
EmS	F-E, S-E
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

General	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**
Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**
Not listed.

Authorisations

- Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**
Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**
Ethylbenzene (CAS 100-41-4)
Ligroine (CAS 8032-32-4)
Nickel (CAS 7440-02-0)
Toluene (CAS 108-88-3)
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**
Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

2-Butanone oxime (CAS 96-29-7)
Ligroine (CAS 8032-32-4)
Nickel (CAS 7440-02-0)
Toluene (CAS 108-88-3)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

2-Butanone oxime (CAS 96-29-7)
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)
Ethylbenzene (CAS 100-41-4)
Ligroine (CAS 8032-32-4)
Nickel (CAS 7440-02-0)
O-xylene (CAS 95-47-6)
P-xylene (CAS 106-42-3)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

Directive 94/33/EC on the protection of young people at work

2-Butanone oxime (CAS 96-29-7)
Ligroine (CAS 8032-32-4)
Nickel (CAS 7440-02-0)
Toluene (CAS 108-88-3)

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations

Follow national regulation for work with chemical agents.
Pregnant women should not work with the product, if there is the least risk of exposure.
Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Water hazard class

VwVwS WGK2

SECTION 16: Other information

List of abbreviations

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

TWA: Time weighted average.
STEL: Short term exposure limit.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References

HSDB® - Hazardous Substances Data Bank
RTECS
IUCLID
ECHA CHEM
CONCAWE

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R21 Harmful in contact with skin.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51 Toxic to aquatic organisms.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52 Harmful to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.
H224 - Extremely flammable liquid and vapour.
H225 - Highly flammable liquid and vapour.
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H340 - May cause genetic defects.
H350 - May cause cancer.
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
H361d - Suspected of damaging the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H373 - May cause damage to organs through prolonged or repeated exposure.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.