

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Agent Stainless Steel VA 190 kgs 14-07009

Version 3.3      Revision Date: 30.04.2020      SDS Number: 102000000098      Print Date: 08.08.2020  
Date of first issue: 13.01.2014

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

#### 1.1 Product identifier

Trade name : Agent Stainless Steel VA 190 kgs 14-07009  
Product code : 08094625V

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company :

E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

acetone  
ethyl acetate  
xylene  
Solvent naphtha (petroleum), light arom.

#### Additional Labelling

EUH208 Contains nickel, N-(3-(trimethoxysilyl)propyl)ethylenediamine, methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
acetone	67-64-1 200-662-2 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 25 - < 50
ethyl acetate	141-78-6 205-500-4 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 20
xylene	1330-20-7 215-535-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 10 - < 20
Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
chromium	7440-47-3 231-157-5	Aquatic Chronic 4; H413	>= 1 - < 2.5
zinc oxide	1314-13-2 215-222-5 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
zinc 5-nitroisophthalate	60580-61-2 262-309-9	Aquatic Chronic 3; H412	>= 1 - < 2.5
nickel	7440-02-0 231-111-4	Skin Sens. 1; H317 Carc. 2; H351 STOT RE 1; H372 Aquatic Chronic 3; H412	>= 0.25 - < 1
N-(3-(trimethoxysilyl)propyl)ethylenedi amine	1760-24-3 217-164-6	Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0.1 - < 1
methyl 2-methylprop-2-enoate	80-62-6 201-297-1	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 0.1 - < 1

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n-butyl methacrylate	97-88-1 202-615-1	Flam. Liq. 3; H226 Skin Corr. 2; H315 Eye Dam. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335	$\geq 0.1 - < 1$
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Risks : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

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

This information is not available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

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local / national regulations (see section 13).

### 6.4 Reference to other sections

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acetone	67-64-1	TWA	500 ppm	2000/39/EC

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			1,210 mg/m3	
Further information	Indicative			
		TWA	500 ppm 1,210 mg/m3	GB EH40
		STEL	1,500 ppm 3,620 mg/m3	GB EH40
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m3	GB EH40
		STEL	400 ppm 1,468 mg/m3	GB EH40
		STEL	400 ppm 1,468 mg/m3	2017/164/EU
Further information	Indicative			
		TWA	200 ppm 734 mg/m3	2017/164/EU
Further information	Indicative			
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 220 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 441 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
iron	7439-89-6	TWA (Inhalable)	10 mg/m3	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable)	4 mg/m3	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three			

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	times the long-term exposure limit should be used.			
chromium	7440-47-3	TWA	2 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		TWA	0.5 mg/m <sup>3</sup>	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA	2 mg/m <sup>3</sup> (chromium)	2006/15/EC
Further information	Indicative			
nickel	7440-02-0	TWA	0.5 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
methyl 2-methylprop-2-enoate	80-62-6	TWA	50 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm	2009/161/EU
Further information	Indicative			
		STEL	100 ppm 416 mg/m <sup>3</sup>	GB EH40
		TWA	50 ppm 208 mg/m <sup>3</sup>	GB EH40

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT
chromium	7440-47-3	chromium (chromium): 10 µmol/mol creatinine (Urine)	After shift	GB EH40 BAT

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
acetone	Workers	Skin contact	Long-term systemic effects	186 mg/kg
	Workers	Inhalation	Long-term systemic effects	1210 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	62 mg/kg
	Consumers	Skin contact	Long-term systemic effects	62 mg/kg
	Consumers	Inhalation	Long-term systemic effects	200 mg/m <sup>3</sup>



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	Workers	Inhalation	Acute local effects	2420 mg/m <sup>3</sup>
ethyl acetate	Workers	Inhalation	Acute local effects	1468 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1468 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	734 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	63 mg/kg
	Workers	Inhalation	Long-term systemic effects	734 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	734 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	734 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	367 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg
	Consumers	Inhalation	Long-term systemic effects	367 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	4.5 mg/kg
xylene	Consumers	Inhalation	Long-term local effects	65.3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	65.3 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	260 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg
	Consumers	Ingestion	Long-term systemic effects	12.5 mg/kg
	Workers	Inhalation	Long-term local effects	221 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	221 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	442 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	212 mg/kg
Solvent naphtha (petroleum), light arom.	Workers	Inhalation	Long-term systemic effects	150 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	25 mg/kg
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m <sup>3</sup>

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	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
	Workers	Inhalation	Long-term local effects	0.5 mg/m3
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Workers	Inhalation	Long-term systemic effects	35.5 mg/m3
	Workers	Dermal	Long-term systemic effects	5 mg/kg
	Workers	Dermal	Acute systemic effects	5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	2.5 mg/kg
	Consumers	Dermal	Acute systemic effects	17 mg/kg
	Consumers	Oral	Long-term systemic effects	2.5 mg/kg
methyl methacrylate	Workers	Skin contact	Long-term local effects	1.5 mg/cm2
	Workers	Skin contact	Long-term systemic effects	13.67 mg/kg
	Workers	Skin contact	Acute local effects	1.5 mg/cm2
	Consumers	Skin contact	Long-term local effects	1.5 mg/cm2
	Consumers	Skin contact	Long-term systemic effects	8.2 mg/kg
	Consumers	Skin contact	Acute local effects	1.5 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	74.3 mg/m3
	Workers	Inhalation	Long-term local effects	210 mg/m3
	Workers	Inhalation	Long-term systemic effects	210 mg/m3
	Consumers	Inhalation	Long-term local effects	105 mg/m3
n-butyl methacrylate	Workers	Inhalation	Long-term systemic effects	415.9 mg/m3
	Workers	Inhalation	Long-term local effects	409 mg/m3
	Workers	Skin contact	Long-term systemic effects	5 mg/kg
	Consumers	Inhalation	Long-term local effects	366.4 mg/m3
	Consumers	Inhalation	Long-term systemic effects	66.5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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acetone	Soil	29.5 mg/kg
	Fresh water	10.6 mg/l
	Fresh water sediment	30.4 mg/kg
	Marine water	1.06 mg/l
	Marine sediment	3.04 mg/kg
ethyl acetate	STP	100 mg/l
	Soil	0.148 mg/kg
	STP	650 mg/l
	Fresh water	0.24 mg/l
	Marine water	0.024 mg/l
xylene	Fresh water sediment	1.15 mg/kg
	Marine sediment	0.115 mg/kg
	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	13.7 mg/l
zinc oxide	Marine sediment	1.37 mg/l
	Soil	2.68 mg/l
	Secondary Poisoning	20 mg/kg
	STP	9.6 mg/l
	Fresh water	0.0206 mg/l
N-(3-(trimethoxysilyl)propyl)ethylenedi amine	Marine water	0.0061 mg/l
	Fresh water sediment	117.8 mg/kg
	Marine sediment	56.5 mg/kg
	Soil	35.6 mg/kg
	STP	0.1 mg/l
methyl methacrylate	Fresh water	0.062 mg/l
	Marine water	0.0062 mg/l
	STP	25 mg/l
	Fresh water sediment	0.22 mg/kg
	Marine sediment	0.022 mg/kg
n-butyl methacrylate	Soil	0.0085 mg/kg
	Fresh water	0.94 mg/l
	Fresh water sediment	5.74 mg/kg
n-butyl methacrylate	Soil	1.47 mg/kg
	Fresh water	0.169 mg/l
n-butyl methacrylate	Marine water	0.169 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : No data available

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 56 °C

Flash point : -19 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

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Density : ca. 0.94 g/cm<sup>3</sup>

Bulk density : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : see user defined free text

Viscosity, kinematic : No data available

Flow time : 10 - 13 s at 20 °C  
Cross section: 4 mm  
Method: DIN 53211

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

##### **acetone:**

Acute oral toxicity : LD50 (Rabbit): 4,700 - 5,800 mg/kg  
(Mouse): 3,000 mg/kg  
(Rat): 9,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### **ethyl acetate:**

Acute oral toxicity : (Rat): 5,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 56 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 18,000 mg/kg

##### **xylene:**

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

##### **Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

### **chromium:**

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Acute inhalation toxicity : LC50: > 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **nickel:**

Acute oral toxicity : LD50 Oral: 9,000 mg/kg

### **N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Acute oral toxicity : LD50 (Rat): ca. 2,995 mg/kg

Acute inhalation toxicity : LC50: 1.49 - 2.44 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks: May cause skin irritation in susceptible persons.

### **Components:**

#### **acetone:**

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

#### **xylene:**

Result: Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Remarks: Eye irritation

### **Components:**

#### **acetone:**

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Remarks: Severe eye irritation

**xylene:**

Result: Eye irritation

**N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Result: Corrosive

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**nickel:**

Result: May cause sensitisation by skin contact.

**N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Components:**

**nickel:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.

May cause drowsiness or dizziness.

**Components:**

**xylene:**

Assessment: May cause respiratory irritation.

**Solvent naphtha (petroleum), light arom.:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.



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### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

#### **Components:**

##### **xylene:**

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

##### **nickel:**

Exposure routes: Inhalation

Assessment: Causes damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

#### **Components:**

##### **xylene:**

May be fatal if swallowed and enters airways.

### **Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

#### **Components:**

##### **zinc oxide:**

Remarks: No data available

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

##### **acetone:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 21,600 mg/l

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### **ethyl acetate:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 717 mg/l

### **Solvent naphtha (petroleum), light arom.:**

#### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

### **nickel:**

#### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

## **12.2 Persistence and degradability**

No data available

## **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available

## **12.5 Results of PBT and vPvB assessment**

### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## **12.6 Other adverse effects**

### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

### **Components:**

#### **zinc oxide:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.
- 

### SECTION 14: Transport information

#### 14.1 UN number

- ADR : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

#### 14.2 UN proper shipping name

- ADR : PAINT  
IMDG : PAINT  
IATA : Paint

#### 14.3 Transport hazard class(es)

- ADR : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

- ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)
- IMDG**  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E
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### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Class 3 - Flammable liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Class 3 - Flammable liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 72.65 %, 682.9 g/l

### 15.2 Chemical safety assessment

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### SECTION 16: Other information

#### Full text of H-Statements

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.
H351	: Suspected of causing cancer.
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.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	: Europe. Indicative occupational exposure limit values
2009/161/EU	: Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
2017/164/EU	: Commission Directive (EU) 2017/164 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	: UK. Biological monitoring guidance values

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2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / TWA : Limit Value - eight hours  
2009/161/EU / TWA : Limit Value - eight hours  
2009/161/EU / STEL : Short term exposure limit  
2017/164/EU / STEL : Short term exposure limit  
2017/164/EU / TWA : Limit Value - eight hours  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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