

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version 4.0 Revision Date: 02.12.2019 SDS Number: 102000000160 Print Date: 08.08.2020
Date of first issue: 13.01.2014

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

1.1 Product identifier

Trade name : Agent Chrome Effect Spray P/B 170 kgs 17-09011
Product code : 08091425V

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

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. |
| 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. |
| 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. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
4.0

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SDS Number:
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Print Date: 08.08.2020
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Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing 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

Solvent naphtha (petroleum), light arom.

butanone

n-butyl acetate

ethylbenzene

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha

Additional Labelling

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
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Revision Date:
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SDS Number:
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Print Date: 08.08.2020
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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 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 918-668-5 01-2119486773-24 | Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 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 | >= 1 - < 10 |
| butanone | 78-93-3 201-159-0 01-2119457290-43 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | >= 1 - < 10 |
| n-butyl acetate | 123-86-4 204-658-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 | >= 1 - < 10 |
| aluminium powder (stabilised) | 7429-90-5 231-072-3 01-2119529243-45 | Flam. Sol. 1; H228 | >= 1 - < 10 |
| ethylbenzene | 100-41-4 202-849-4 | Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 | >= 1 - < 10 |

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Print Date: 08.08.2020 |
| 4.0 | 02.12.2019 | 102000000160 | Date of first issue: 13.01.2014 |

- 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 serious eye irritation.
May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
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

SAFETY DATA SHEET

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Agent Chrome Effect Spray P/B 170 kgs 17-09011

| | | | |
|---------|----------------|--------------|---------------------------------|
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| 4.0 | 02.12.2019 | 102000000160 | Date of first issue: 13.01.2014 |

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.

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 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

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Version 4.0 Revision Date: 02.12.2019 SDS Number: 102000000160 Print Date: 08.08.2020
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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 1,210 mg/m ³ | 2000/39/EC |
| Further information | Indicative | | | |
| | | TWA | 500 ppm 1,210 mg/m ³ | GB EH40 |
| | | STEL | 1,500 ppm 3,620 mg/m ³ | GB EH40 |
| xylene | 1330-20-7 | TWA | 50 ppm 220 mg/m ³ | 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/m ³ | 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. | | | |
| | | TWA | 50 ppm 221 mg/m ³ | 2000/39/EC |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
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SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

| | | | | |
|-------------------------------|--|----------------------|----------------------------------|------------|
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm 442 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| butanone | 78-93-3 | STEL | 300 ppm 900 mg/m ³ | 2000/39/EC |
| Further information | Indicative | | | |
| | | TWA | 200 ppm 600 mg/m ³ | 2000/39/EC |
| Further information | Indicative | | | |
| | | TWA | 200 ppm 600 mg/m ³ | 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 | 300 ppm 899 mg/m ³ | 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. | | | |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm 724 mg/m ³ | GB EH40 |
| | | STEL | 200 ppm 966 mg/m ³ | GB EH40 |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Inhalable) | 10 mg/m ³ | 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/m ³ | 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 (inhalable dust) | 10 mg/m ³ | GB EH40 |
| Further information | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, | | | |

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Version
4.0

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| | | | | |
|---------------------|---|-----------------------|----------------------------------|------------|
| | <p>thoracic and inhalable aerosols, 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., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | | |
| | | TWA (Respirable dust) | 4 mg/m ³ | GB EH40 |
| Further information | <p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols, 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., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | | |
| ethylbenzene | 100-41-4 | TWA | 100 ppm 442 mg/m ³ | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 200 ppm 884 mg/m ³ | 2000/39/EC |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
02.12.2019

SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

| | | | | |
|---------------------|---|------|----------------------------------|---------|
| Further information | Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 100 ppm 441 mg/m ³ | 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 | 125 ppm 552 mg/m ³ | 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. | | | |

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 |
| butanone | 78-93-3 | butan-2-one: 70 micromol per litre (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 ³ | |
| | 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 ³ | |
| Solvent naphtha (petroleum), light arom. | Workers | Inhalation | Acute local effects | 2420 mg/m ³ | |
| | Workers | Inhalation | Long-term systemic effects | 150 mg/m ³ | |
| | Workers | Skin contact | Long-term systemic effects | 25 mg/kg | |
| | xylene | Workers | Inhalation | Long-term systemic effects | 221 mg/m ³ |
| | | Workers | Inhalation | Acute systemic effects | 442 mg/m ³ |
| | | Workers | Inhalation | Long-term local effects | 221 mg/m ³ |
| | | Workers | Inhalation | Acute local effects | 442 mg/m ³ |
| Workers | Skin contact | Long-term systemic effects | 212 mg/kg | | |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
02.12.2019

SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

| | | | | |
|---|-----------|--------------|----------------------------|------------|
| | Consumers | Inhalation | Long-term systemic effects | 65.3 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 260 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 65.3 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 260 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 125 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 12.5 mg/kg |
| butanone | Workers | Skin contact | Long-term systemic effects | 1161 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 600 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 31 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 412 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 106 mg/m3 |
| aluminium powder (stabilised) | Workers | Inhalation | Long-term local effects | 3.72 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 3.95 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 3.72 mg/m3 |
| ethylbenzene | Workers | Inhalation | Long-term systemic effects | 77 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 180 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 15 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 1.6 mg/kg |
| Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha | Workers | Skin contact | Long-term systemic effects | 300 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 300 mg/kg |
| | Consumers | Skin contact | Long-term systemic effects | 300 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 900 mg/m3 |

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

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|------------|
| acetone | Soil | 29.5 mg/kg |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
02.12.2019

SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

| | | |
|-------------------------------|----------------------|-------------|
| | 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 |
| | STP | 100 mg/l |
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | STP | 6.58 mg/l |
| | Fresh water sediment | 12.46 mg/kg |
| | Marine sediment | 12.46 mg/kg |
| | Soil | 2.31 mg/kg |
| butanone | Soil | 22.5 mg/kg |
| | Fresh water | 55.8 mg/l |
| | Fresh water sediment | 284.7 mg/kg |
| | Marine water | 55.8 mg/l |
| | STP | 709 mg/l |
| n-butyl acetate | Fresh water | 0.18 mg/l |
| | Marine water | 0.018 mg/l |
| | STP | 35.6 mg/l |
| | Fresh water sediment | 0.981 mg/kg |
| | Marine sediment | 0.098 mg/kg |
| | Soil | 0.090 mg/kg |
| aluminium powder (stabilised) | Fresh water | 0.0749 mg/l |
| | clarification plant | 20 mg/l |
| ethylbenzene | Fresh water | 0.1 mg/l |
| | Fresh water sediment | 13.7 mg/kg |
| | Marine water | 0.01 mg/l |
| | Marine sediment | 1.37 mg/kg |
| | STP | 9.6 mg/l |
| | Soil | 2.68 mg/kg |
| | Sporadic Release | 0.1 mg/l |
| | Secondary Poisoning | 0.02 g/kg |

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.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

| | | | |
|----------------|------------------------------|-----------------------------|---|
| Version 4.0 | Revision Date: 02.12.2019 | SDS Number: 102000000160 | Print Date: 08.08.2020 Date of first issue: 13.01.2014 |
|----------------|------------------------------|-----------------------------|---|

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Appearance | : liquid |
| Colour | : silver |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| pH | : No data available |
| Freezing point | : No data available |
| Boiling point/boiling range | : 55 °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 |
| Density | : ca. 0.86 g/cm ³ |
| Bulk density | : No data available |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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| | | | |
|----------------|------------------------------|-----------------------------|---|
| Version 4.0 | Revision Date: 02.12.2019 | SDS Number: 102000000160 | Print Date: 08.08.2020 Date of first issue: 13.01.2014 |
|----------------|------------------------------|-----------------------------|---|

| | |
|--|--|
| 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, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Flow time | : 10 - 12 s at 20 °C Cross section: 4 mm Method: DIN 53211 |

9.2 Other information

No data available

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. |
|-----------------------|--------------------------------------|

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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

Solvent naphtha (petroleum), light arom.:

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

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

xylene:

Acute oral toxicity : LD50 (Rat): 8,700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 6,350 mg/l
Exposure time: 4 h
Test atmosphere: vapour

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

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg
Method: Converted acute toxicity point estimate

Assessment: The component/mixture is moderately toxic after

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
02.12.2019

SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

single contact with skin.

butanone:

Acute oral toxicity : LD50 (Rat): 3,300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 10,000 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 5,000 mg/kg

aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 5,000 mg/kg

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Product:

Remarks: May cause skin irritation and/or dermatitis.

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:

Remarks: Severe eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version
4.0

Revision Date:
02.12.2019

SDS Number:
102000000160

Print Date: 08.08.2020
Date of first issue: 13.01.2014

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), light arom.:

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

n-butyl acetate:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version 4.0 Revision Date: 02.12.2019 SDS Number: 102000000160 Print Date: 08.08.2020
Date of first issue: 13.01.2014

SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

acetone:

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

Solvent naphtha (petroleum), light arom.:

Ecotoxicology Assessment

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

butanone:

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 4,025 mg/l

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

butanone:

Partition coefficient: n-octanol/water : log Pow: 0.26 (20 °C)

n-butyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2.3

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:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version 4.0 Revision Date: 02.12.2019 SDS Number: 102000000160 Print Date: 08.08.2020
Date of first issue: 13.01.2014

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.

SECTION 13: Disposal considerations

European Waste Catalogue : 16 05 04 - gases in pressure containers (including halons) containing dangerous substances

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

Version 4.0 Revision Date: 02.12.2019 SDS Number: 102000000160 Print Date: 08.08.2020
Date of first issue: 13.01.2014

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

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.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Print Date: 08.08.2020 |
| 4.0 | 02.12.2019 | 102000000160 | Date of first issue: 13.01.2014 |

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 79.76 %, 685.97 g/l

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H228 : Flammable solid.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H373 : May cause damage to organs through prolonged or repeated exposure.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Irrit. : Skin irritation
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
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Agent Chrome Effect Spray P/B 170 kgs 17-09011

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Print Date: 08.08.2020 |
| 4.0 | 02.12.2019 | 102000000160 | Date of first issue: 13.01.2014 |

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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