

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 24.12.2019

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

\* **1.1 Product identifier**

\* **Trade name:** Perfect Line Metal Conditioner

\* **Article number:** PL.MTCD.5 / PL.MTCD.25

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

\* **Life cycle stages**

IS Use at industrial Sites

PW Widespread use by professional workers

\* **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

\* **Product category** PC14 Metal surface treatment products

\* **Application of the substance / the mixture**

Metal surface treatment

PC14 Metal surface treatment products

\* **Uses advised against**

All not mentioned uses

SU21 Consumer uses: Private households / general public / consumers

\* **1.3 Details of the supplier of the safety data sheet**

\* **Manufacturer/Supplier:**

Perfect Line

P.O. Box 90117

5000 LA Tilburg

The Netherlands

Tel : +31(0) 857 44 11 18

www.perfectline.eu

\* **Information department:**

Product Safety department

Tel.: 00-31 - (0) 167-526 900

safety@adinternationalbv.com

Support is only given in the following languages: Dutch, English and German

\* **1.4 Emergency telephone number:**

Product Safety Department

In case of a spill or accident, you can contact us at:

tel. (00) - 31 - 167 - 526 - 888 (during office hours)

During office hours we can be contacted for general information at:

tel. (00) - 31 - 167 - 526 - 900

Support is only given in the following languages: Dutch, English and German

(UK) The composition of this product has been declared to the UK National Poisons Information Service (www.npis.org). In case of a medical emergency contact:

www.nhsdirect.nhs.uk - 0845 4647

www.nhs24.com - 08454 24 24 24

**SECTION 2: Hazards identification**

\* **2.1 Classification of the substance or mixture**

\* **Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

\* **2.2 Label elements**

\* **Labelling according to Regulation (EC) No 1272/2008** Void

\* **Hazard pictograms** Void

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\* **Signal word** Void\* **Hazard statements** Void\* **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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

\* **Additional information:**

EUH208 Contains chromium trifluoride. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Protect from freezing

Keep away from heat and direct sunlight.

\* **2.3 Other hazards** .\* **Results of PBT and vPvB assessment**\* **PBT:** Based on available data, the classification criteria are not met.\* **vPvB:** Based on available data, the classification criteria are not met.
**SECTION 3: Composition/information on ingredients**
\* **3.2 Mixtures**\* **Description:** Mixture of the substances listed below with nonhazardous additions.\* **Dangerous components:** Void\* **SVHC** This product does not contain any SVHC substances\* **Additional information**

Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, or the registration date has not yet come due.

All values in this chapter are given in w%

For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**
\* **4.1 Description of first aid measures**\* **General information** No special measures required.\* **After inhalation**

Supply fresh air; consult doctor in case of complaints.

Seek medical treatment in case of complaints.

\* **After skin contact** Immediately rinse with water.\* **After swallowing** If symptoms persist consult doctor.\* **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

\* **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures**
\* **5.1 Extinguishing media**\* **Suitable extinguishing agents**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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\* **For safety reasons unsuitable extinguishing agents** Not determined.

\* **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Hydrogen fluoride (HF)

Not considered to be a significant fire risk

Acids may react with metals to produce hydrogen, a highly flammable and explosive gas

\* **5.3 Advice for firefighters**

\* **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

\* **6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

Warning: Contaminated absorbent material may pose the same hazard as the spilled product.

\* **6.2 Environmental precautions:**

This material and its container must be disposed of as hazardous waste.

Use appropriate container to avoid environmental contamination.

\* **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

\* **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

\* **7.1 Precautions for safe handling**

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

\* **Information about protection against explosions and fires:** No special measures required.

\* **7.2 Conditions for safe storage, including any incompatibilities**

Separate from alkalis, oxidizing agents and chemicals that decompose easily by acids such as cyanides sulfides carbonates

\* **Storage**

\* **Requirements to be met by storerooms and receptacles:** Provide acid-resistant floor.

\* **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

See section 10.3: Possibility of hazardous reactions

\* **Further information about storage conditions:**



Protect from frost.

Protect from heat and direct sunlight.

\* **Maximum storage temperature:** 40 °C

\* **Minimum storage temperature:** 5 °C

\* **Recommended storage temperature:** 15-25 °C

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**\* Compatible materials**

The materials listed are based on available literature. The reference in this chapter does not guarantee the specific application at the end user

Aluminum

Stainless steel 304

Stainless Steel 316

**\* Incompatible materials**

Cast iron

Ferrous Alloys

Brass

PVA

**\* 7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**\* Additional information about design of technical systems:** No further data; see item 7.

**\* 8.1 Control parameters**

**\* Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**\* Additional information:** The lists that were valid during the creation were used as basis.

**\* 8.2 Exposure controls**

Recommendations are based on working at ambient temperature, unless stated otherwise

**\* Personal protective equipment**

**\* General protective and hygienic measures**

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

**\* Breathing equipment:**

In case of inadequate ventilation wear respiratory protection.

Respiratory protection when aerosol or mist are formed in the breathing zone



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Respiratory protection (Efficiency  $\geq 90\%$ )

**\* Recommended filter device for short term use:**

EN standard for filter mask: EN 405

Filter P3 (white)

**\* Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.

For the permanent contact in work areas with heightened risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.

**\* Penetration time of glove material** Not applicable.

**\* For the permanent contact gloves made of the following materials are suitable:** Plastic gloves

**\* For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Plastic gloves

**\* As protection from splashes gloves made of the following materials are suitable:**

Plastic gloves

**\* Not suitable are gloves made of the following materials:**

Strong gloves

PVA gloves

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\* **Eye protection:**

EN standard for eye protection: EN 166

\* **Body protection:** Acid resistant protective clothing

### SECTION 9: Physical and chemical properties

\* **9.1 Information on basic physical and chemical properties**\* **General Information**\* **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Green
* <b>Odour:</b>	Odourless
* <b>Odour threshold:</b>	Not applicable.

\* **pH-value at 20 °C:** 3-4\* **Change in condition**

<b>Melting point/freezing point:</b>	Not determined.
<b>Initial boiling point and boiling range:</b>	100 °C

\* **Flash point:** Not applicable\* **Flammability (solid, gaseous)** Not applicable.\* **Decomposition temperature:** Not determined.\* **Self igniting:** Product is not selfigniting.\* **Explosive properties:** Product does not present an explosion hazard.  
Not determined.\* **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

\* **Oxidising properties** Not applicable.\* **Vapour pressure at 20 °C:** 23 hPa\* **Density at 20 °C:** 1 g/cm<sup>3</sup>\* **Relative density** Not determined.\* **Vapour density** Water (CAS 7732-18-5) < 1 (Air=1)\* **Evaporation rate** Not determined.\* **Solubility in / Miscibility with**

<b>Water:</b>	Easily soluble
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\* **Partition coefficient: n-octanol/water:** Not determined.\* **Viscosity:**

<b>dynamic:</b>	Not determined.
<b>kinematic at 20 °C:</b>	10 s (DIN 53211/4)

\* **Solvent content:**

<b>Organic solvents (VOC/HAP):</b>	1.0 %
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\* **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

\* **10.1 Reactivity** See section 10.3: Possibility of hazardous reactions

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- \* **10.2 Chemical stability**
- \* **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used and stored according to specifications.*
- \* **10.3 Possibility of hazardous reactions**  
*Corrosive action on metals*  
*Reacts with alkali (lyes)*  
*Corrodes copper and brass*
- \* **10.4 Conditions to avoid** *See section 10.3: Possibility of hazardous reactions*
- \* **10.5 Incompatible materials:** *See section 10.3: Possibility of hazardous reactions*
- \* **10.6 Hazardous decomposition products:** *No dangerous decomposition products known*

### SECTION 11: Toxicological information

- \* **11.1 Information on toxicological effects**
- \* **Acute toxicity** *Based on available data, the classification criteria are not met.*
- \* **Primary irritant effect:**
- \* **Skin corrosion/irritation** *Based on available data, the classification criteria are not met.*
- \* **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- \* **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- \* **Acute effects (acute toxicity, irritation and corrosivity)** *For acute effects. Check Chapter 4.2.*
- \* **Sensitisation** *Contains chromium trifluoride. May produce an allergic reaction.*
- \* **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- \* **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- \* **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- \* **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- \* **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- \* **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- \* **Aspiration hazard** *Based on available data, the classification criteria are not met.*

### SECTION 12: Ecological information

- \* **12.1 Toxicity**
- \* **Aquatic toxicity:** *No further relevant information available.*
- \* **12.2 Persistence and degradability** *No further relevant information available.*
- \* **12.3 Bioaccumulative potential** *No further relevant information available.*
- \* **12.4 Mobility in soil** *No further relevant information available.*
- \* **Additional ecological information:**
- \* **General notes:** *Must not reach sewage water or drainage ditch undiluted or unneutralised.*
- \* **12.5 Results of PBT and vPvB assessment**
- \* **PBT:** *Based on available data, the classification criteria are not met.*
- \* **vPvB:** *Based on available data, the classification criteria are not met.*
- \* **12.6 Other adverse effects** *No further relevant information available.*

### SECTION 13: Disposal considerations

- \* **13.1 Waste treatment methods**
- \* **Recommendation**  
*On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.*
- \* **European waste catalogue**  
*The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.*

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**\* Uncleaned packagings:**

**\* Recommendation:** Packaging can be reused or recycled after cleaning.

**\* Recommended cleansing agent:**

Water, if necessary with cleansing agents.

Diluted caustic solution.

### SECTION 14: Transport information

**\* 14.1 UN-Number**

**\* ADR/RID/ADN, ADN, IMDG, IATA**                      Void

**\* 14.2 UN proper shipping name**

**\* ADR/RID/ADN, ADN, IMDG, IATA**                      Void

**\* 14.3 Transport hazard class(es)**

**\* ADR/RID/ADN, ADN, IMDG, IATA**

**\* Class**    Void

**\* 14.4 Packing group**

**\* ADR/RID/ADN, IMDG, IATA**                      Void

**\* 14.5 Environmental hazards:**

Not applicable.

**\* 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.

**\* UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

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

**\* Directive 2012/18/EU**

**\* Named dangerous substances - ANNEX I** None of the ingredients is listed.

**\* LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**\* Regulation (EU) No 649/2012**

None of the ingredients is listed.

**\* National regulations** This product is non hazardous in accordance with EC1272/2008

**\* Information about limitation of use:** No known restrictions

**\* Other regulations, limitations and prohibitive regulations**

**\* "Australia Group Common Control List" (2009) - <http://www.australiagroup.net/en/precursors.html>**

None of the ingredients is listed.

**\* Chemical Weapons Convention Annex 1 - [www.opcw.org](http://www.opcw.org) (2011)**

None of the ingredients is listed.

**\* Chemical Weapons Convention Annex 2 - [www.opcw.org](http://www.opcw.org) (2011)**

None of the ingredients is listed.

**\* Chemical Weapons Convention Annex 3 - [www.opcw.org](http://www.opcw.org) (2011)**

None of the ingredients is listed.

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\* **INFCIRC254 Rev. 10 (06/2011) - [www.nuclearsuppliersgroup.org](http://www.nuclearsuppliersgroup.org)**

None of the ingredients is listed.

\* **"Wassenaar Arrangement" Munitions list Ver.10 (2010) - [www.wassenaar.org](http://www.wassenaar.org)**

None of the ingredients is listed.

\* **Missile Technology Control Regime List (04/2011) - [www.mtcr.info](http://www.mtcr.info)**

None of the ingredients is listed.

\* **2455/2001/EC list of priority substances in the field of water policy**

None of the ingredients is listed.

\* **UN International Narcotics Control Board (01/2011) "Red List" - [www.incb.org](http://www.incb.org)**

None of the ingredients is listed.

\* **UN International Narcotics Control Board (05/2010) "Green List" - [www.incb.org](http://www.incb.org)**

None of the ingredients is listed.

\* **UN International Narcotics Control Board (12/2010) "Yellow List" - [www.incb.org](http://www.incb.org)**

None of the ingredients is listed.

\* **RoHS 2015/863/EU**

None of the ingredients is listed.

\* **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

\* **Department issuing SDS:** Product Safety Department

\* **Contact:** Contact information can be found in chapter 1: Supplier information

\* **Abbreviations and acronyms:**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

\*\* **Data compared to the previous version altered.**