

**MATERIAL SAFETY DATA SHEET** according to 1907/2006/EC, article 31

Trade name: MARTIN Flux Crème lead free  
Article No: May 2017

**1. Identification of the substance / preparation and of the company**

**1.1 Identification of the substance / preparation**

MARTIN Flux Creme lead free

**1.2 Application of the substance / preparation**

Halogen free flux paste

In accordance with: DIN EN 29454-1: 1.1.3.;C ANSI J STD-004/005; RE LO

**1.3 Company/undertaking identification**

MARTIN GmbH

Industriestrasse 17

D- 82110 Germering

Phone: +49 [0]89 8941898-0

Fax: +49 [0]89 8941898-19

www.martin-smt.de

**1.4 Emergency telephone**

Please contact the nearest poison emergency center.

**2. Hazards identification**

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

Classification according to Regulation (EC) No. 1272/2008 (CLP- Regulation):



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

**2.2 Label elements**

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

The product is classified and labelled according to the CLP regulation.

**2.3 Hazards pictograms**



GHS02

**2.4 Signal word**

Warning

**2.5 Hazard statements**

H226 Flammable liquid and vapour

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**2.6 Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P240 Ground/bond container and receiving equipment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P501 Dispose of contents/container in accordance with local /regional /national / international regulations.

**2.7 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

**3. Composition/Information on ingredients**




**3.1 Chemical characterization:**

Mixtures

**3.2 Description:**

Mixture of substances listed below with nonhazardous additions.

**3.3 Dangerous components:**

CAS: 770-35-4 EINECS: 212-222-7	1-Phenoxypropan-2-ol	 Flam. Liq. 3, H226	15-45%
CAS: 124-04-9 EINECS: 204-673-3	adipic acid	 Eye Irrit. 2, H319	2,5-15%
CAS: 141-82-2 EINECS: 205-503-0	malonic acid	 Acute Tox. 4, H302; Eye Irrit. 2, H319	≤ 2,5%

**3.4 Additional information:**

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

**4. First aid measures**

**4.1 General information:**

Immediately remove any clothing soiled by the product.

**4.2 After inhalation:**

Supply fresh air; consult doctor in case of complaints.

**4.3 After Skin Contact:**

Immediately rinse with water.

**4.4 After eye contact:**

Rinse opened eye for several minutes under running water.

**4.5 After swallowing:**

If symptoms persist consult doctor.

**4.6 Information for doctor**

**4.6.1 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.6.2 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**5. Firefighting measures**

- 5.1 Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 For safety reasons unsuitable extinguishing agents**  
Water with full jet
- 5.3 Special hazards arising from the substance or mixture:**  
No further relevant information available.
- 5.4 Protective equipment:**  
No special measures required

**6. Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions**  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- 6.4 Additional information**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7. Handling and storage**

- 7.1 Handling**
- 7.1.1 Information for safe handling:**  
No special precautions are necessary if used correctly.
- 7.1.2 Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges
- 7.2 Conditions for safe storage, including any incompatibilities**
- 7.2.1 Requirements to be met by storerooms and receptacles:**  
No special requirements.
- 7.2.2 Information about storage in one common storage facility**  
No special requirements.
- 7.2.3 Further information on storage conditions:**  
Keep container tightly sealed.
- 7.2.4 Specific end use(s)**  
No further relevant information available.

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**8. Exposure controls / personal protection**

**8.1 Additional information about design of technical facilities:**

No further data; see item 7.

**8.2 Control parameters**

**8.2.1 Ingredients 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.

**8.2.2 Additional information:**

The lists valid during the making were used as basis.

**8.3 Personal protective equipment:**

**8.3.1 General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

**8.3.2 Respiratory protection:**

Not required.

**8.3.3 Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the Degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**8.3.4 Eye Protection:**

Tightly sealed goggles



**9. Physical and chemical properties**

**· Information on basic physical and chemical properties**

**· General Information**

**· Appearance:**

**Form:** Pasty  
**Colour:** Yellowish  
**· Odour:** Characteristic  
**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 265 °C

**· Flash point:** 38 °C

**· Flammability (solid, gaseous):** Not applicable.

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· <b>Ignition temperature:</b>	420 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC (EC)</b>	0.00 %
<b>Solids content:</b> 70.0 %	
· <b>Other information</b>	No further relevant information available.

## 10. Stability and Reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

## 11. Toxicological information

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**11.1 Acute toxicity:**

Based on available data, the classification criteria are not met.

**11.2 Primary irritant effect:**

**11.2.1 Skin corrosion/irritation**

Based on available data, the classification criteria are not met

**11.2.2 Serious eye damage/irritation**

Based on available data, the classification criteria are not met

**11.2.3 Respiratory or skin sensitization**

Based on available data, the classification criteria are not met

**11.3 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**11.3.1 Germ cell mutagenicity**

Based on available data, the classification criteria are not met

**11.3.2 Carcinogenicity**

Based on available data, the classification criteria are not met

**11.3.3 Reproductive toxicity**

Based on available data, the classification criteria are not met

**11.3.4 STOT-single exposure**

Based on available data, the classification criteria are not met

**11.3.5 STOT-repeated exposure**

Based on available data, the classification criteria are not met

**11.3.6 Aspiration hazard**

Based on available data, the classification criteria are not met

**12. Ecological information**

**12.1 Toxicity**

**12.1.1 Aquatic toxicity:**

No further relevant information available.

**12.1.2 Persistence and degradability**

No further relevant information available.

**12.2 Behaviour in environmental systems:**

**12.2.1 Bioaccumulative potential**

No further relevant information available

**12.2.2 Mobility in soil**

No further relevant information available

**12.3 General Notes**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.4 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

**12.5 Other adverse effects**

No further relevant information available

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**13. Disposal considerations**


**13.1 Waste treatment methods**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**13.2 Uncleaned packaging:**

Disposal must be made according to official regulations.

**14. Transport information**

· UN-Number · ADR, IMDG, IATA	UN1993
· UN proper shipping name · ADR · IMDG · IATA	1993 FLAMMABLE LIQUID, N.O.S. (1-Phenoxypropan-2-ol) FLAMMABLE LIQUID, N.O.S. (1-Phenoxypropan-2-ol) Flammable liquid, n.o.s. (1-Phenoxypropan-2-ol)
· Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  3 D/E

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· <b>IMDG</b>	5L
· <b>Limited quantities (LQ)</b>	Code: E1
· <b>Excepted quantities (EQ)</b>	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (1-PHENOXYPROPAN-2-OL), 3, III

**15. Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.2 Directive 2012/18/EU**
- 15.3 Named dangerous substances - ANNEX I**  
None of the ingredients is listed.
- 15.4 Seveso category**  
P5c FLAMMABLE LIQUIDS
- 15.5 Qualifying quantity (tonnes) for the application of lower-tier requirements**  
5,000 t
- 15.6 Qualifying quantity (tonnes) for the application of upper-tier requirements**  
50,000 t
- 15.7 Chemical safety assessment:**  
A Chemical Safety Assessment has not been carried out.

**16. Other Information**

The information in this data sheet is based on our present state of knowledge and is provided without warranty of product features and shall not establish a legally valid contractual relationship.

**16.1 Relevant phrases**

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation

**16.2 Abbreviations and Acronyms:**

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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2