MATERIAL SAFETY DATA SHEET ACCORDING TO 91/155 EEC

Trade Name: MARTIN Flux Creme lead free
Article No: HT00.0116 / HT00.0117 / HT00.0119
Issue: Nov. 2012

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 L0

1.3 Company/undertaking identification
MARTIN GmbH
Argelsrieder Feld 1b
D-82234 Wessling
Phone: +49-8153-932 93-0
Fax: +49-8153-932 93-9
www.martin-smt.de

1.4 Emergency telephone
Please contact the nearest poison emergency center.

2. Hazards Identification

2.1 Hazard designation

Xi Irritant

2.2 Information pertaining to particular dangers for man and environment
R 36 Irritating to eyes

3. Composition of / Information on Ingredients

3.1 Description
Flux paste

3.2 Dangerous ingredients

Norm	No	Designation		Proportion
CAS	770-35-4	Propylene glycol	Xi, R 36	0-50%
EINECS	212-222-7	Phenyl ether		

3.3 Additional information
For the wording of the listed risk phrases refer to section 15.

4. First Aids Measures

4.1 General instructions
Immediately remove any clothing contaminated by the product.

4.2 After inhalation
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness bring patient into stable side position for transport.

4.3 After skin contact
Wash with soap and water. If skin irritation continues, consult a doctor. After prolonged skin contact defeating of skin possible, use skin protecting agent after prolonged skin contact.

4.4 After eye contact
Rinse opened eye for several minutes under running water. Then consult doctor.

4.5 After swallowing
Rinse out mouth and then drink plenty of water. Seek medical treatment.

5. Fire Fighting Measures

5.1 Suitable extinguisher agents
Use fire fighting measures that suit the environment.

5.2 For safety reasons unsuitable extinguishing agents
None.

5.3 Special hazards caused by the material, its products of combustion or flue gases
Formation of toxic gases is possible during heating or in case fire.

5.4 Special protecting equipment
Wear self-contained breathing apparatus.

6. Accidental Release Measures

6.1 Personal-related safety precautions
Wear protective equipment. Keep unprotected persons away. Remove all ignition sources. Ensure adequate ventilation. Use breathing protection against the effects of fumes/dust/aerosol. Avoid skin and eye contact.

6.2 Measures for environmental precautions
Inform respective authorities in case product reaches water or sewage system.

6.3 Measures of cleaning / collecting
Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

6.4 Additional Information
See Section 8 for information on personal protection equipment.

7. Handling and Storage

7.1 Handling

7.1.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Do not inhale aerosols. Avoid breathing vapors. Avoid skin and eye contact. Make sure that all applicable workplace limits are observed.

7.2 Storage

Keep away from heat sources. Don't store with oxidation chemicals and strong acids.

7.2.1 Further information about storage conditions

Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Store container in a well ventilated position. Storage temperature 5 – 20 °C. If the storage temperature is higher there will not any danger but the lifetime of the flux paste will get shorter.

7.2.2 Storage class

-

7.2.3 Rating after Classification as per German Health and Safety at Work Regulations /BetrSichV)

Irritant

8. Exposure Controls and Personal Protective Equipment

8.1 Additional information about design of technical systems

No further data; see item 7.

8.2 Components with critical values that require monitoring at the workplace

770-35-4 Propylene Glycol Phenyl Ether (0-50%)

No limit values are fixed.

8.3 Additional information

The lists that were valid during the compilation were used as basis.

8.4 Personal protective equipment

8.4.1 General protective and hygienic measures

Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Do not eat, drink or smoke while working. Do not carry cleaning clots impregnated with the product in trouser pockets. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Wash hands during breaks and at end of the work.

8.4.2 Breathing equipment

Use breathing protection when aerosol or mist is formed. If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

8.4.3 Protection of hands

Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check the permeability prior to each anewed use of the glove. The glove material has to be impermeable and resistant to product/ the substance/ the preparation.

8.4.3.1 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 can not be calculated in advance and has therefore to be checked prior to the application.

8.4.3.2 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.

8.4.4 Eye protection

Tightly sealed safety glasses.

9. Physical and Chemical Properties

9.1 General information

Aggregate state / form: pasty
Color: yellow
Odor: aromatic

9.2 Important health, safety and environmental information

Parameter		Value/Range	Unit
Chance in condition		20	°C
Melting point / range	Not determined		
Boiling point / range		100-240	°C
Flash point		100	°C
Ignition temperature	Not determined		°C
Inflammability	Product is not self igniting		
Danger of explosion	Product is not explosive.		
Critical values for explosion	Not determined		
Density	at 20°C	-	g/cm³
Solubility in / miscibility with water	Not miscible		

10. Stability and Reactivity

10.1 Thermal decomposition / conditions to be avoided

No decomposition if you use the product normal.

10.2 Material to be avoided

Strong oxidizing agents. Strong acids.

10.3 Dangerous reactions

No dangerous reactions common.

10.4 Dangerous products of decomposition

The product is usually robust and don't decomposition in room temperature. By high temperature vapour arise with following elements: Carbon dioxide (CO2), water vapour, nitrogen oxides. Usually the product doesn't polymerized, that you feel it.

11. Toxicological Information

11.1 Acute toxicity

11.1.1 Primary irritant effect

On the skin: Longer lasting and/or repeated skin contact may cause irritation.
On the eye: Irritant effect.
Sensitization: No sensitizing effect known.

11.1.2 Additional toxicological details

After skin contact or swallow there is a high intoxication possible. Because the bad degradable of the gastrointestinal mucosa high canned to acute poisoning apparition.

11.1.2 Additional toxicological information

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant. Inhalation of concentrated vapours may lead to anaesthesia-like conditions and headache, dizziness etc.

12. Ecological Information

12.1 Ecotoxical effects

The elements are biologica degradable. In high concentration the product can harm vegetable and animals.

12.2 General Notes

Water hazard class 1 (Self-assessment): slightly hazardous for water.

13. Disposal Considerations

13.1 Recommendation

Dispose of in accordance with the official regulations.

13.2 European waste catalogue

14 06 03 Designation: mixture of solvents without halogenated organic solvents.

13.3 Uncleaned packaging

Disposal must be made according to official regulations.

14. Transport Information

No mandatory identification

15. Regulatory Information

15.1 Designation according to EU guidelines

The product has been classified/labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

15.2 Code letter and hazard designation of product

Xi Irritant

15.3 Risk phrases

R 36 Irritating to eyes

15.4 Safety phrases

S 23 Do not breathe gas/fumes/vapour/spray.
S 24/25 Avoid contact with skin and eyes.
S 36/37 Wear suitable protective clothing and gloves

15.5 National regulations

15.5.1 Information about limitation of use

Employment restrictions concerning young persons must be observed.

15.6 Decree to be applied in case of technical fault

Quantity limits according to “EC Seveso directive” should be observed.

15.7 Rating after Classification as per German Health and Safety at Work Regulations (BetrSichV)

Irritant

15.7 Water hazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other Information

The relevant data sheet applicable here. Our aim, by providing the above information which reflects the current status of our knowledge and experience, is to describe our product in terms of any safety requirements. This does not however bind us to any guarantee or assurance of properties.