

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/16/2007

Reviewed on 10/16/2007

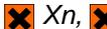
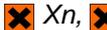
## 1 Identification of substance

- **Product details**
- **Trade name:** **MASTIPREN**
- **Article number:** 1330/03
- **Application of the substance / the preparation :** Adhesive
- **Manufacturer/Supplier:**  
MCD  
34 rue du Faubourg de Pierre  
67000 STRASBOURG  
Tél . : 03 88 23 79 60  
Fax : 03 88 23 15 10
- **E-mail address of the competent person responsible for the safety data sheet :**  
Collet.Alain@emfi.com
- **Information department:** Environment Protection Department

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:**  
Adhesive based on polychloroprene rubber with synthetic resins and highly flammable liquids.

- **Dangerous components:**

141-78-6	ethyl acetate  Xi,  F; R 11-36-66-67	10-25%
108-88-3	toluene  Xn,  Xi,  F; R 11-38-48/20-63-65-67	5-15%
92045-53-9	Non aromatic hydrocarbons C7  Xn,  Xi,  F,  N; R 11-38-51/53-65-67	5-15%
64742-49-0	Predominantly paraffinic hydrocarbons C6  Xn,  Xi,  F,  N; R 11-38-51/53-65-67	5-10%
110-54-3	n-hexane  Xn,  Xi,  F,  N; R 11-38-48/20-62-51/53-65-67	< 1%
1314-13-2	zinc oxide  N; R 50/53	< 1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:**



Xn Harmful  
F Highly flammable

- **Information pertaining to particular dangers for man and environment:**

R 38 Irritating to skin.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R 63 Possible risk of harm to the unborn child

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 2  
Reactivity = 0

## 4 First aid measures

- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **The following symptoms may occur:**  
Headache  
Dizziness  
Dizziness  
Gastric or intestinal disorders

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
In case of fire, the following can be released:  
Hydrogen chloride (HCl)  
Carbon monoxide (CO)  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Particular danger of slipping on leaked/spilled product.  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good interior ventilation, especially at floor level. (Vapors are heavier than air).
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

## 8 Exposure controls and personal protection

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

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

### 141-78-6 ethyl acetate

PEL	1400 mg/m <sup>3</sup> , 400 ppm
REL	1400 mg/m <sup>3</sup> , 400 ppm
TLV	1440 mg/m <sup>3</sup> , 400 ppm

### 108-88-3 toluene

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	(188) NIC-75 mg/m <sup>3</sup> , (50) NIC-20 ppm (Skin); (BEI)

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

### 142-82-5 heptane

PEL	2000 mg/m <sup>3</sup> , 500 ppm
REL	Short-term value: C 1800* mg/m <sup>3</sup> , C 440* ppm Long-term value: 350 mg/m <sup>3</sup> , 85 ppm *15-min
TLV	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm

### 108-87-2 methylcyclohexane

PEL	2000 mg/m <sup>3</sup> , 500 ppm
REL	1600 mg/m <sup>3</sup> , 400 ppm
TLV	1610 mg/m <sup>3</sup> , 400 ppm

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

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Avoid close or long term contact with the skin.  
Do not inhale gases / fumes / aerosols.  
Wash hands before breaks and at the end of work.  
Do not eat, drink or smoke while working.  
Pregnant women should strictly avoid inhalation or skin contact.

- **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A

- **Protection of hands:**

PVA 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.

- **Eye protection:** Safety glasses

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· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

**Form:** Pasty  
**Color:** Dark beige  
**Odor:** Solvent-like

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 63°C (145°F)

· **Flash point:** -25°C (-13°F)  
ISO 1523

· **Ignition temperature:** >200°C (>392°F)

· **Decomposition temperature:** >120°C (>248°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### · Explosion limits:

**Lower:** 1.1 Vol %  
**Upper:** 11.5 Vol %

· **Vapor pressure at 20°C (68°F):** <250 hPa (<188 mm Hg)

· **Density at 20°C (68°F):** 1.15

### · Solubility in / Miscibility with Water:

Not miscible or difficult to mix.

### · Viscosity:

**Dynamic at 20°C (68°F):** 270 000 mPa.s

### · Solvent content:

**Organic solvents:** 45 %

· **Solids content:** 55 %

## 10 Stability and reactivity

### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### · Materials to be avoided:

· **Dangerous reactions** Reacts with strong oxidizing agents.

· **Dangerous products of decomposition:** None to our knowledge at room temperature.

## 11 Toxicological information

### · Acute toxicity:

### · LD/LC50 values that are relevant for classification:

#### 141-78-6 ethyl acetate

Oral	LD50	4935 mg/kg (rbt)
Inhalative	LC50/4 h	1600 mg/l (rat)

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**108-88-3 toluene**

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4 h	5320 mg/l (mus)

- **Primary irritant effect:**
- **on the skin:**  
Frequent or prolonged contact may irritate and cause dermatitis.  
Irritant to skin and mucous membranes.
- **on the eye:** Light irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Other information:** -
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
This product contains substances which can be dangerous for the environment.  
Harmful to aquatic organisms

## 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Must be disposed of in an incinerator for hazardous waste according to official regulations.  
Note : contains chlorine (chemically bound)
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **DOT regulations:**



- **Hazard class:** -
- **Identification number:** UN3175
- **Proper shipping name (technical name):** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (TOLUENE, ETHYL ACETATE)
- **Label** 4.1

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 4.1 Flammable solids, self-reactive substances and solid desensitised explosives
- **UN-Number:** 3175
- **Packaging group:** II

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· **Description of goods:** 3175 SOLIDS CONTAINING FLAMMABLE LIQUID,  
N.O.S. (TOLUENE, ETHYL ACETATE)

· **Maritime transport IMDG:**



· **IMDG Class:** 4.1  
 · **UN Number:** 3175  
 · **Label** 4.1  
 · **Packaging group:** II  
 · **Marine pollutant:** No  
 · **Propper shipping name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.  
(TOLUENE, ETHYL ACETATE)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 4.1  
 · **UN/ID Number:** 3175  
 · **Label** 4.1  
 · **Packaging group:** II  
 · **Propper shipping name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.  
(TOLUENE, ETHYL ACETATE)

## 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

108-88-3 toluene

110-54-3 n-hexane

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3 toluene

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-88-3 toluene

D

1314-13-2 zinc oxide

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· <b>IARC (International Agency for Research on Cancer)</b>		
108-88-3	toluene	3

· <b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		

· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
108-88-3	toluene	A4

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

- **Product related hazard informations:**

The product has been classified and marked in accordance with EU Directives.

- **Hazard symbols:**

Xn Harmful

F Highly flammable

- **Hazard-determining components of labelling:**

toluene

- **Risk phrases:**

38 Irritating to skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

63 Possible risk of harm to the unborn child

- **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

36/37 Wear suitable protective clothing and gloves.

- **Special labeling of certain preparations:** Contains rosin. May produce an allergic reaction.

## 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 MSDS:** Laboratory

- **Contact:** Mr. Alain COLLET

- **In accordance with the international norm:**

ISO 11014-1

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

USA