

**Safety Data Sheet**

acc. to 91/155/EEC - ISO 11014-1:1994(E)

Printing date 06.09.2002

Reviewed on 19.07.2002

**1 Identification of substance:**

- **Product details:**
- **Trade name:** HAERTER 137/I
- **Article number:** 16S-00019/2
- **Application of the substance / the preparation**  
Epoxy resin systems  
Hardening agent/ Curing agent
- **Manufacturer/Supplier:**  
Martin G. Scheufler Kunstharzprodukte GmbH  
Am Ostkai 21 + 22  
D-70327 Stuttgart  
Tel.: ++49/(0)711/323081  
Fax.: ++49/(0)711/3280041
- **Information:** see: Chapter 16 (Contact)
- **Emergency information:** see: Manufacturer/Supplier

**2 Composition/Data on components:**

- **Chemical characterization:**
- **Identification number(s):**
- **EINECS Number:** Not applicable (preparation)
- **Chemical characterization**
- **Description:** Hardener for epoxy resins

**Dangerous components:**

	Alkyletheramin	C; R 34	> 50%
CAS: 2855-13-2	isophoronediamine	C; R 21/22-34-43-52/53	25-50%
EINECS: 220-666-8			

**3 Hazards identification**

**Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**  
R 21/22 Harmful in contact with skin and if swallowed.  
R 34 Causes burns.  
R 43 May cause sensitisation by skin contact.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4 First aid measures**

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
Cover wound with a sterile dressing.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult doctor.

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- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Call a doctor immediately.

**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents**  
Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Can be released in case of fire  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Ammonia
- **Protective equipment:**  
Wear full protective suit.  
Wear self-contained breathing apparatus.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6 Accidental release measures**

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or water bodies.  
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of contaminated material as waste according to item 13.

**7 Handling and storage**

- **Handling**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Storehouses and workplaces must be sufficiently ventilated.  
Prevent any penetration into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.

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**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**  
No further data; see item 7.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Plastic gloves
- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **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.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

**9 Physical and chemical properties:**

- **General Information**

Form:	Fluid
Colour:	bluish
Odour:	Amine-like
- **Change in condition**

Boiling point/Boiling range:	> 240°C (DIN 53171)
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- **Flash point:** > 110°C (ISO 2719)
- **Ignition temperature:** > 300°C (DIN 51794)
- **Density at 20°C** 0.95 - 0.98 g/cm<sup>3</sup> (DIN 53217)
- **Solubility in / Miscibility with**

Water:	Miscible
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- **Viscosity:**

dynamic at 25°C:	15 - 30 mPa*s (ISO 9371)
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**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** Strong exothermic reaction with acids
- **Dangerous products of decomposition:**  
Corrosive gases/vapours  
Ammonia

**11 Toxicological information**

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

**Alkyletheramin**

Oral	LD50	2880 mg/kg (rat)
Dermal	LD50	2980 mg/kg (rabbit)

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## 2855-13-2 isophoronediamine

Oral	LD50	1030 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible by skin contact.
- **Additional toxicological information:**  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

## 12 Ecological information:

- **General notes:**  
Do not allow product to reach underground or surface water or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Remove according to local authority recommendations, e.g. convey to a suitable incinerator.
- **European waste catalogue**  
The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID Class:** 8 Corrosive substances.
- **Number/Letter:** 53b)
- **Hazard Index Number:** 80
- **Substance Index Number:** 2735
- **Label:** 8
- **Designation of goods:** Polyamines, liquid, corrosive, n.o.s. (alkyletheramine)
- **Maritime transport IMDG:**
- **IMDG Class:** 8
- **Page:** 8109-2
- **UN Number:** 2735
- **Packaging group:** II
- **EMS Number:** 8-05
- **MFAG:** 320
- **Marine pollutant:** -
- **Correct technical name:** Polyamines, liquid, corrosive, n.o.s. (alkyletheramine)
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 8
- **UN/ID Number:** 2735
- **Packaging group:** II

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- **Correct technical name:** Polyamines, liquid, corrosive, n.o.s.  
(alkyletheramine)

\* **15 Regulatory information**

- **Designation according to EC guidelines:**  
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**  
C Corrosive
- **Hazard-determining components of labelling:**  
isophoronediamine  
Alkyletheramin
- **Risk phrases:**  
21/22 Harmful in contact with skin and if swallowed.  
34 Causes burns.  
43 May cause sensitisation by skin contact.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
60 This material and its container must be disposed of as hazardous waste.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**16 Other information:**

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

- **Relevant R-phrases**  
21/22 Harmful in contact with skin and if swallowed.  
34 Causes burns.  
43 May cause sensitisation by skin contact.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing data specification sheet:** see below
- **Contact:**  
Anwendungstechnik Tel.: \*\*49/711/323081
- **\* Data compared to the previous version altered.**

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