

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

073242781

N/A

# Material Safety Data Sheet

Revision Date: 09.02.2010

(EC 1907/2006)

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6010-22-04

## 1. Chemical product and company identification

**Product name:**

Tray Adhesive

**Supplier:**

**DMG Chemisch-Pharmazeutische Fabrik GmbH**

Elbgaustraße 248

22547 Hamburg

Germany

Fon: +49. (0) 40. 84006-0

Fax: +49. (0) 40. 84006-222

info@dmg-dental.com

www.dmg-dental.com

**Emergency contact: Infotrac-(800)535-5053**

## 2. Hazards Identification

None, if handled according to directions.

Flammable. Harmful by inhalation. Environmentally hazardous.

## 3. Composition / Information on ingredients

**Common chemical name / Generic name:**

Preparation based on silicone resin and solvent.

Contains mixture of aliphatic hydrocarbons, CAS-No. 64742-49-0.

## 4. First-aid measures

**In case of inhalation:** Take patient to open air. Let sit down calmly.

**In case of skin contact:** Wash with soap and water.

**In case of eye contact :** Immediately rinse with plenty of water, consult a physician.

**In case of ingestion:** Immediately seek medical advice.

## 5. Fire-fighting measures

Flammable. May form explosive vapour-air mixture.

**Extinguishing media:** Powder, sand, foam, carbon dioxide.

**Not suitable extinguishing media:** Direct jet of water

## 6. Accidental release measures

**Personal precautions:** Use only in well-ventilated areas.

Keep away from sources of ignition - No smoking.

**Environmental precautions:** Do not empty into drains.

**Methods for cleaning up:** Take up mechanically, with inert fluid-binding material.

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## 7. Handling and storage

### Handling:

**Technical measures:** Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion protected devices. Keep container tightly closed in a well-ventilated place.

**Safe handling advice:** Wear suitable gloves. Avoid contact with eyes.

### Storage:

**Technical measures:** Keep container in a well-ventilated place.

**Storage conditions:** Keep container tightly closed in a dark, cool place.

**Recommended packaging material:** Container of glass or metal.

## 8. Exposure controls/personal protection

**Engineering measures:** Use only in well-ventilated areas.

**Limit values:** MAK-TLC-Value: 50 ppm (hexane).  
Schwangerschaftsgruppe C (hexane).

### Personal protective equipment:

**Respiratory protection:** Do not breathe vapour. Breathing mask filter type A. (if TLC is exceeded).

**Hand and skin protection:** Rubber gloves.

**Eye protection:** Goggles.

**Hygiene measures:** When using do not eat or drink.

## 9. Physical und chemical properties

**Appearance:** Blue liquid.

**Odour:** Characteristic

**pH-value:** Not applicable.

### Changes in physical state:

**Boiling temperature:** > ca. 60 °C

**Flashpoint:** > -25 °C

**Ignition temperature:** > 270 °C

**Explosion properties:** 0.8 - 8 Vol. %

**Vapour pressure:** 190 mbar / 20 °C

**rel. vapour density:** > 1

**Density:** 0.8 g/cm<sup>3</sup>

**Solubility in water:** insoluble

## 10 Stability and reactivity

**Thermal decomposition:** No decomposition, if handled and stored according to directions.

**Hazardous reactions:** None, if handled and stored according to directions.

**Conditions to avoid:** Heat, light, naked flame.

**Hazardous decomposition products:** In case of fire: carbon monoxide.

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## 11 Toxicological information

• **Acute oral toxicity:** LD<sub>50</sub> (rat) > 2000 mg/kg.

**Irritation of skin :** Irritation possible.

**Irritation of eye:** Irritation possible.

## 12 Ecological information

• Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**Persistence und degradability:** No data available for the preparation. Solvent: rapid photochemical oxidation at the air.

**Ecotoxicity:** Fish toxicity LC<sub>50</sub> > 4480 mg/l (hexane). Toxic effects on aquatic organisms possible.

## 13 Disposal considerations

• **Waste from residues:** Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

## 14 Transport information

• **Regulations for land (road/railroad):**

GGVSE: Class 3, II

ADR: Class 3, II

RID: Class 3, II

**Regulations for sea:**

IMDG/GGVSee-Code: Class 3, II

EmS: 3-07

MFAG: 310

**Regulations for air:**

ICAO/IATA-DGR: Class 3, II

**UN-number:** 3295

**Additional information:** Proper shipping name: hydrocarbons, liquid, n.o.s.

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## 15 Regulatory information

• **Labelling according to international regulations:** F, Highly inflammable; Xn, Harmful, N, Environmentally hazardous.  
Contains hexane.

**Symbols of danger:** Flame symbol, St Andrew's cross, Fish symbol.

**R-Phrases:** 11-38-48/20-51/53-65-67

Highly flammable.

Irritating to skin.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may damage lungs, if swallowed.

Vapours may cause drowsiness and daze.

**S-Phrases:** 9-16-23-29-33-61-62

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not breathe vapour.

Do not empty into drains.

Take precautionary measures against static discharges.

Avoid discharge into the environment. Refer to special instructions / material safety data sheet.

Do not cause vomiting, if swallowed. Seek medical advice immediately and show this container or label.

**VbF-class:** A1

## 16 Other information

• None

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Tray Adhesive

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

Company name:	DMG Chemisch-Pharmazeutische Fabrik GmbH		
Street:	Elbgaustraße 248		
Place:	D-22547 Hamburg		
Telephone:	+49. (0) 40. 84006-0	Telefax: +49. (0) 40. 84006-222	
e-mail:	info@dmg-dental.com		
Internet:	www.dmg-dental.com		

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Indications of danger: F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment  
 R phrases:  
 Possible risk of impaired fertility.  
 Highly flammable.  
 Irritating to skin.  
 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Vapours may cause drowsiness and dizziness.

**GHS classification**

Hazard categories:  
 Flammable liquid: Flam. Liq. 2  
 Skin corrosion/irritation: Skin Irrit. 2  
 Reproductive toxicity: Repr. 2  
 Specific target organ toxicity - single exposure: STOT SE 3  
 Specific target organ toxicity - repeated exposure: STOT RE 2  
 Hazardous to the aquatic environment: Aquatic Chronic 2  
 Hazard Statements:  
 Highly flammable liquid and vapour.  
 Causes skin irritation.  
 May cause drowsiness or dizziness.  
 Suspected of damaging the unborn child.  
 May cause damage to organs through prolonged or repeated exposure.  
 Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Hazardous components which must be listed on the label**

n-hexane

Signal word:

Danger

Pictograms:

GHS02-GHS07-GHS08-GHS09



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**Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Additional advice on labelling**

Do not breathe vapour.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

chemical characterization (preparation): Silicon, Petroleum distillate.

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
203-777-6	n-hexane	65 %
110-54-3	F - Highly flammable, Repr. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	
601-037-00-0	Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411	

Full text of R and H phrases: see Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap. Change contaminated clothing.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Immediately get medical attention.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).

**Extinguishing media which must not be used for safety reasons**

High power water jet.

**Additional information**

Highly flammable. Formation of potentially explosive mixtures with: Air.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Keep away from sources of ignition - No smoking.

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Avoid contact with eyes. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-protected machinery, apparatus, suction equipment, appliances etc.

**Further information on handling**

Wear suitable protective clothing and gloves.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**Keep container tightly closed in a cool, well-ventilated place.  
Store only in original container.**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**Additional advice on limit values**exposure limit values: MAK: 50 ppm ( n-hexane:: 20 ml/m<sup>3</sup>; 72 mg/m<sup>3</sup>)

Reproduction toxicity:

**8.2. Exposure controls****Occupational exposure controls**

Ensure adequate ventilation of the storage area.

**Protective and hygiene measures**

When using do not eat or drink.

**Respiratory protection**

The following must be prevented: inhalation.

**Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

**Eye protection**

Tightly sealed safety glasses.



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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
 Colour: blue  
 Odour: characteristic

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Boiling point: &gt; 60 °C

point of decomposition:

Flash point: &gt; -20 °C

**Explosive properties**

0,8 - 8,0 Vol. %

Ignition temperature: &gt; 260 °C

Density: 0,8 g/cm<sup>3</sup>

Water solubility: insoluble

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

heat. Light. Remove all sources of ignition.

**10.6. Hazardous decomposition products**

Can be released in case of fire: Carbon monoxide.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

LD50: Rat. 2000 mg/kg

**Irritation and corrosivity**

Irritating to eyes, respiratory system and skin.

**SECTION 12: Ecological information****12.1. Toxicity**Preparation not tested.  
Harmful to aquatic organisms.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
110-54-3	n-hexane					
	Acute fish toxicity	LC50	2,5 mg/l	96	Pimephales promelas	Geiger et al. 1990

**12.2. Persistence and degradability**

Preparation not tested.

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**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
110-54-3	n-hexane	3,9

**Further information**

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Carry out a burning of hazardous waste according to official regulations.

**Waste disposal number of waste from residues/unused products**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** 1268  
**14.2. UN proper shipping name:** PETROLEUM DISTILLATES, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 640D  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

**Other applicable information (land transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:** 1268  
**14.2. UN proper shipping name:** ERDÖLDESTILLATE, N.A.G.  
**14.3. Transport hazard class(es):** 3

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**14.4. Packing group:**

II

Hazard label:

3



Special Provisions:

-

Limited quantity:

1 L

EmS:

F-E, S-E

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)****14.1. UN number:**

1268

**14.2. UN proper shipping name:**

ERDÖLDESTILLATE, N.A.G.

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

II

Hazard label:

3



Limited quantity Passenger:

1 L

IATA-packing instructions - Passenger:

353

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

364

IATA-max. quantity - Cargo:

60 L

**Other applicable information (air transport)**

E2

: Y341

**14.5. Environmental hazards**

Dangerous for the environment:

yes

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D):

1 - slightly water contaminating

**SECTION 16: Other information****Full text of R phrases referred to under Sections 2 and 3**

11	Highly flammable.
38	Irritating to skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
51	Toxic to aquatic organisms.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
62	Possible risk of impaired fertility.
65	Harmful: may cause lung damage if swallowed.

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67 Vapours may cause drowsiness and dizziness.

**Full text of H statements referred to under Sections 2 and 3**

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Further Information**

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*