



Date of establishment: Safety data sheet/ EG-Sicherheitsdatenblatt
09/02/03
Revision date:

Product/ Product group: **Adhesive wax**

1.1 Substance/Preparation and Company Name

1.2 Information on the product

1.3 Information on manufacturer/Supplier

Supplier: **Tiffany Glaskunst GmbH**
Street: **Helleforthstr. 18-20**
UIP Code/town: **D-33758 Schloß Holte Stukenbrock**
Tel.: **+49 5207 91280**
Fax.: **+49 5207 912840**
e-mail: **tgk@tgk.de**
Internet: **http://www.tgk.de**

Telephone number in emergency cases: 05207-9128-0

2. **Composition/Information on Ingredients :**

Chemical characteristics:

Solid, saturated paraffin carbon hydrogens,
formula = C_nH_{2n+2}

Dangerous ingredients:

None.

Additional information:

For full rafinates:

Corresponds to DAB (Deutsches Arzneibuch – German Pharmacopeia), PH.EUR 97
(European Pharmacopeia)

Corresponds to BGA XXV. Recommendation – of the latest issue -

For full and semi rafinates:

EINECS-Nr.: 2651545
CAS-Nr.: 64742-51-4

3. **Possible hazards:**

Hazard designation:

None.

Information pertaining to particular dangers for men and environment:

In solid state there are no dangers. In liquid state, burns are possible in case of contact with the product because of the temperature.

As powder, contact with the eye can lead to irritation .

4. **First Aid Measures:**

General information:

Immediate measure in case of contact with the solid product:

None

Immediate measure in case of contact with the liquid product:

Proceed as with burns.

Inhalation:

None

Eye contact:

Liquid: Flush with plenty of cold water and seek medical attention.

Skin contact:

Liquid: Cool with water, steril bandage and seek medical attention.

Ingestion:

Damages only in liquid (hot) state possible, in this case proceed as with burns.

5. Fire fighting measures:

Appropriate extinguishing media:

Carbon dioxide, sand, foam, extinguishing powder.

Unadequate extinguishing media for safety reasons:

Water.

Special hazards caused by the material, its combustion products or flue gases:

In case of uncomplete incineration, there can be toxic ingredients (e.g. carbon monoxide) in the fume gases.

Special protection equipment for fire fighting:

Independent respiratory protection device.

Additional information:

Cool container in danger zone outwardly with water.

6. Accidental release measures:

Personal precaution measures:

Solid: None

Liquid: Avoid contact with hot liquid.

Environmental protection measures:

Do not let pass into canalisation and surface water.

Measures for cleaning up/collecting;

Solid: Take up mechanically.

Liquid: If necessary exhaustion, after solidification take up mechanically. In case of leakage of greater quantities, inform Authorities.

7. Handling and storage:

Handling:

Information for secure handling:

Solid:

Usual handling of solid transport goods.

Liquid:

Usual protection measures for handling of hot liquids. Adhere to general hygiene measure for handling of chemicals.

Information for fire and explosion protection:

Solid:

No information

Liquid:

Avoid formation of aerosol at pumping.

Powder:

Danger of explosion, undertake measure for dust-explosion protection (refer to section 9)

Fire class according to DIN EN 2: B

Storage:

Requirements for storage rooms and containers:

Store in cool and dry places away from light due to quality reasons. In case of liquid storage, tank storage rooms according to official regulations have to be established and operated.

Information on storage together with other substances:

Liquid good may not contain any water in case of temperatures above 100° C (delay in boiling).

8. Exposure controls and personal protection:

Technical protection measures:

Solid: No special measures

Liquid: Design container in such a way as to make a filling up without formation of aerosol possible. Provide earthing for all containers. Switch off sources of ignition.

Ingredients with limit values on working place that have to be controlled:

Solid:

None.

Liquid:

Germany/ Switzerland/ Austria	Germany	USA
There is no Limit value for paraffin	The limit value of 6 mg/m ³ has to be not exceeded for aerosols and fine dusts.	TLV value for wax steams = 2 mg/m ³

Personal protection measures:

General information:

In case of exceeding the limit value for fine dust, use appropriate respiratory protection devices.

Breathing protection:

Solid:

Not necessary

Liquid:

Work in well-ventilated rooms.

Protection of hands:

Solid:

Not necessary

Liquid:

Rubber resp. leather gloves

Eye protection:

Solid:

Not necessary.

Liquid:

Protection goggles

Body protection:

Solid:

Not necessary

Liquid:

Wear body-covering working clothes

9. Physical and chemical properties:

Appearance at 20 ° C:

- **Form:** waxy solid (slab, pastile, powder)
- **Colour:** white
- **Odour:** nearly odourless
- **Solidification point:** 65-70 ° C (DIN-ISO 2207)
- **Oil content:** 5,0 – 7,0 % (DIN-ISO 2908)
- **Flash point:** no data available
- **Solubility in water:** no data available
- **Explosion limit:**
- **Upper:** (paraffin dust)several thousands g/m³
- **Lower:** (paraffin dust) 15 g/m³
- **Density (at 20°C):** no data available
- **Steam pressure (at 30 ° C):** no data available
- **Cinetic Viscosity (at 100 ° C):** ca. 3,7 mm²/s (DIN 51562, T.1)
- **Penetration at 25 ° C:** 55-80 1/10 mm (DIN 51579)
- **Solubility in test benzine (80 ° C):** miscible
- **PH value (watery extract):** neutral

10. Stability and reactivity:

Conditions to avoid:

Liquid:

Long-term storage times at temperatures above 20 ° C of the specified solidification point can impair the quality.

Products to avoid:

Avoid contact with strong oxidating agents.

Dangerous decompositon products

In case of uncomplete incineration, smoke, carbon monoxide, aldehydes.

Thermic decomposition:

>180 °C DSC 10 °C/min CrNi-Tiegel).

11. Toxicological information:

Toxicological datas/summary:

The results of animal experiments do not indicate any pathological changes by chronic toxicological effects (Lit.: Shubik et. al., Toxicol. Appl. Pharmacol., 4. Suppl. 1-62, 1962).

Cancer-inducing effect:

Not proved (Shubik et. al., Toxicol. Appl. Pharmacol., 4. Suppl. 1-62, 1962).

Information on irritation:

Due to the application of many years as ingredient of body-care products, there is no indication concerning skin-irritating effects.

Skin:

Not irritating.

4 ml/kg 50 % paraffin in vaseline does not cause any systematic toxicity.

LD₅₀ dermal, rabbit: > 2 ml/kg (J. Am. Coll. Toxicol., 3,43-99, 1984).

Eyes:

Not irritating

50 % paraffin in vaseline does not cause any irritating effects at rabbit. (J. Am. Coll. Toxicol., 3, 43-99, 1984).

Ingestion:

Harmless (not toxic, refer to value of the oral LD₅₀ at rat) .

12. Ecological information:

General notes:

According to the present state of knowledge, any negative effects are not known.
Mechanical separation in water treatment plants is possible.

Limit values for passing-in of waste water (valid for Germany):

Direct passing-in:

Passing-in guidelines are defined in different frame waste water Ordinances. Paraffin can be determined as organic bound carbon, difficultly volatile lipophile substances, carbons.

Indirect passing-in:

Passing-in guidelines according to ATV guidelines:

Difficultly lipophile substances: 250 mg/l

Carbons, directly separable: 50 mg/l

As far as a removal of carbons

exceeding the separation of direct

separable light liquids is necessary: 20 mg/l

Additional information:

An ecotoxic danger by paraffin does not exist.

Fish test according to DIN 38412-L31: negative

Paraffins are biologically degradable within 28 days according to the OECD guideline 301. (Hansveit, Chemosphere 24, 605-620, 1992, Wemul Hartung, Erdöl, Erdgas, Kohle, 108, 424 – 426, 1992).

13. Disposal considerations:

For the material/residues

Recommendation:

Thermic use. In Germany disposal of contaminated paraffins is only possible upon agreement with the Authorities according to the following waste disposal code numbers:

Waste numbers	Designation	Method of disposal
54202	Fat-(wax) raw materials	SAV
54207	Wax waste (LAGA-Katalog)	
18714	Packing material with harmful contaminations, mainly organic	SAV, HMV

Packings:

Big/small boxes:

The boxes have a „resy symbol“ and are taken back by the affiliated waste paper collection systems.

Paper bags:

Paper bags have a „repa-bag“ symbol and the chemical classification 4 (organic, compositions that do not react among each other) and are taken back by the affiliated waste paper collection systems.

14. Transport information:

Not dangerous for transport according to transport regulations.

15. Regulatory information:

Designation according to EC guidelines:

The product has not to be labelled according to Ordinance on dangerous substances (GefStoffV) dd. 26th October, 1993.

Code letter and hazard designation of the product:

None.

Hazard-determining components of labelling:

Technical instruction air:

Value limit TA air: 0,15 g/m³
Substance class III, annex E

Water hazard class:

Classification according to KBwS: No water hazard in the sense of § 19 section. 5 WHG

Please adhere to the national guidelines concerning handling of materials with a water hazard.

16. Additional Information:

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.