

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: Ethanol Gel

Printing date: 16.03.2011

Revision date: 16.03.2011

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1. Identification of substance or mixture

1.1 Trade name

Ethanol Gel

Use of substance/preparation

Fuel Paste

1.2 Company identification

VANHEST GERMANY

Volbachstraße 41

D-99880 Hörselgau

Tel. : +49 3622 209777

Emergency phone number : +49 3622 209777

2. Hazards identification

Classification according to Directive 67/548/EEC or 1999/45/EC

Categories of danger : F – Highly Flammable

R-Phrases: R 11 – Highly Flammable.



This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

3. Composition/ information on ingredients

Chemical characterisation (mixture)

Hazardous ingredients

(Full text of R-phrases: see section 16)

EG-No.	CAS-No.	Substance name	Concentr.	Symbols	R-Phrases
200-578-6	64-17-5	ethanol; ethyl alcohol	70%	F	R11
231-791-2	7732-18-5	water	30%		

4. First aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

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In case of skin contact

Wash immediately with: Water. Change contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

In case of eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

In case of ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting.

5. Fire-fighting measures

Suitable extinguishing media

Foam, Carbon dioxide (CO₂), Dry extinguishing powder, Water spray

Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Take precautionary measures against static discharges.

6. Accidental release measures

Personal precautions

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment. Take precautionary measures against static discharges. Keep away from sources of ignition - **No smoking**. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Maximum usage temperature: 18°C

Environmental precautions

Do not allow to enter into surface water or drains. Danger of explosion.

Methods for cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Spilled product must never be returned to the original container for recycling.

7. Handling and Storage

7.1 Handling

Advices on safe handling

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment. Take precautionary measures against static discharges. Keep away from sources of ignition - **No smoking**. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Maximum usage temperature: 18°C

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Precautions against fire and explosion

Take precautionary measures against static discharges. The product is: Highly Flammable. The formation of combustible vapours is possible at temperatures above: 18 °C. Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2 Storage

Requirements for storage room and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Recommended material: PET, soft steel, stainless steel, aluminium. Protect against: Heat. Keep away from sources of ignition. – Don't Smoke.

Hints on joint storage

Do not store together with: Food and feedingstuffs, Flammable Gases, Liquids or Solids, Oxidizing Agents, Spontaneously flammable materials

Storage class (VCI): 3

8. Exposure controls / Personal protection

8.1 Exposure limit values

Occupational exposure limits - Germany (TRGS 900)

Substance CAS-No.	limit value ml/m ³	mg/m ³	F/m ³	peak limit. category	type
Ethanol 64-17-5	500	960		2(II)	

Additional information

TLV-Name: Fuel Gel
 TLV-TWA (mg/m³): 5
 TLV-STEL (ppm): 10

8.2 Exposure controls

Occupational exposure controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapour/spray.

General health and safety measures

Change contaminated, saturated clothing immediately. Use protective skin cream before handling the product. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sneeze.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protection apparatus: Container device with compressed air (DIN EN 137).

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (nitrile rubber)

Required properties: antistatic, liquid-tight

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Eye protection

Provide eye shower and label its location conspicuously. Suitable eye protection: Eye glasses with side protection. Basket eye glasses

Protective clothing

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Required properties: antistatic
Footwear with studs or metal must not be worn.

9. Physical and chemical Properties

9.1 Appearance

Physical state: Paste
Colour: colourless
Odour: characteristic alcoholic smell

9.2 Important health, safety and environmental information

Method

Change of state

Boiling temperature:	85 °C
Flashpoint:	18 °C
Explosion limits	
lower explosion limit:	0,56 Vol.-%
upper explosion limit:	8 Vol.-%
vapour pressure:	0,6 hPa
(at 50 °C)	
Density:	0,803 g/cm ³
Solubility in Water:	0 g/l
(at 20 °C)	
Kinematic viscosity:	3,97 mm ² /s
(at 25 °C)	

Volative Organic Components

562,1 g/l

9.2 Additional information

Self ignition temperature	425 °C
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10. Stability and Reactivity

Conditions to avoid

Protect against: Heat. Risk of ignition.

Materials to avoid

Oxidizing Agents, spontaneously flammable materials.

Hazardous decomposition products

Carbon Dioxide (CO₂)

11. Toxicological information

Acute toxicity

oral: Rat LD 50: >2000mg/kg

dermal: Rat LD 50 >2000mg/kg

inhalative: Rat LC 50 > 5mg/l 4h

Irritant and corrosive effects

Not irritating to eyes. Slightly irritating to skin.

Additional information

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

12. Ecological information

Ecotoxicity

Fish: LC 50 >100mg/l

Daphnia: EC 50 > 100mg/l

Algae: EC 100mg/l

Bacteria: EC50 100mg/l

Persistence and degradability

Product is partially biodegradable. Significant residues remain. Mechanical separation in a suitable sewage plant is possible.

Additional information

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

13. Disposal considerations

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Suggested EWC key: 130703*

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Appropriate disposal / package

Suitable detergent: Water (with detergent). Completely emptied and cleaned packages can be recycled.

Uncleaned packages disposal EWC key: 150510*

14. Transport information

14.1 Land transport (ADR/RID)

ADR/RID Class: 4.1
Hazard sign:
Hazard identification number: 40
UN-no.: 1325
Hazard label(s): 4.1
ADR/RID Packing group: II

Proper shipping name

FLAMMABLE SOLID, ORGANIC, N.O.S. ; FUEL GEL

Remarks for land transport

Special provisions: 274
Excepted Quantities: E2
Delivery category: 2

14.2 Inland water ways transport

ADNR-class: 4.1
Classification code: F1
UN-No.: 1325

Proper shipping name

FLAMMABLE SOLID, ORGANIC, N.O.S. ; FUEL GEL

Special provisions: 274
Excepted Quantities: E2

14.3 Sea transport (IMDG)

IMDG-Class: 4.1
UN-No.: 1325

Hazard label(s): 4.1
IMDG-Packing group: II

Proper shipping name

FLAMMABLE SOLID, ORGANIC, N.O.S. ; FUEL GEL

Remarks for sea transport

Special provisions: 274, 915,944
Excepted Quantities: E2

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14.4 Air transport (ICAO-TI / IATA-DGR)

ICAO/IATA-Class: 4.1
UN/ID-No.: 1325
Hazard label(s): 4.1
ICAO-Packing group: II

IATA-Packing instruction - Passenger: 415
IATA-Maximum amount - Passenger: 15 kg
IATA-Packing instruction - Cargo: 417
IATA-Maximum amount - Cargo: 50 kg

Proper shipping name

FLAMMABLE SOLID, ORGANIC, N.O.S. ; FUEL GEL

Remarks for air transport

Excepted Quantities: E2
Passenger-LQ: Y415
Special Provisions: A3

15. Regulatory information

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations

F – Highly Flammable



Hazard components for labelling

CAS-No.	EG-No.	Substance name
200-578-6	64-17-5	ethanol; ethyl alcohol

R-phrases

11
Highly flammable.

S-phrases

9-16
Keep container in a well ventilated place.
Keep away from sources of ignition - No smoking.

EU-Legislation

Maximum VOC content: 526,1 g/l

National regulation

Germany:

TA-Luft: Is not suspect to this regulation.
Restrictions of occupation: Observe § 22 JArbSchG.

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Störfallverordnung:	Annex I: Observe limit values according to R-phrases
Water Hazard Class (WGK):	2 – hazardous to water (WGK 1)
Status:	Classification according VwVwS, Annex 4 Nr.3.
Classification according VbF:	A1 – Liquid with a flashpoint of <21°C

Other regulations

Technische Regeln für brennbare Flüssigkeiten: 100, 110

16. Other information

Relevant R-phrases (Number and full text)

11 Highly flammable.

The above information describes exclusively the safety requirements of the product and is based on our present day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily sufficient to prevent harmful effects. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.
