According to Regulation EC No. 1907/2006

Wachstrennspray E-WAX GP

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance

or preparation: Wachstrennspray E-WAX GP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Release agent in spray for industrial plastic moulds

Uses advised against:Do not use on humans and animals

Do not use for purposes other than those indicated.

1.3 Company/undertaking identification

 Company name:
 Gößl + Pfaff GmbH

 Street:
 Münchener Str. 13

 Place:
 85123 Karlskron/Brautlach

 Telephone:
 +49 (0) 8450 / 932-0

 Fax.:
 +49 (0) 8450 / 932-13

Contact person: Management: Mr. Gößl, Mr. Pfaff

E-Mail: info@goessl-pfaff.de
Internet: www.goessl-pfaff.de
Responsible Department: Management

1.4 Emergency telephone

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.

Skin Irrit. 2, Causes skin irritation.

STOT SE 3, May cause drowsiness or dizziness.

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Hazard pictograms:







Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of water.



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P312 Call a POISON CENTER if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403 Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of container in accordance with national regulation.

Special Provisions: None

Contains

hydrocarbons c7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

tetrachloroethylene: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards: section 10.3

3. Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Name	Ident.Number	Classification	Qty
hydrocarbons c7, n- alkanes, isoalkanes, cyclics	CAS: 64742-49-0 EC: 927-510-4 REACH No.: 01-2119666169-27-0000	2.6/2 Flam. Liq. 2 H225 3.2/2 Skin Irrit. 2 H315 4.1/C2 Aquatic Chronic 2 H411 3.10/1 Asp. Tox. 1 H304	>=50 % - <60 %
propane	Index-number: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 REACH No.: 01-2119486944-21-0046	3.8/3 STOT SE 3 H336 2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280	>= 20 % - <25 %
Hydrocarbons, C4; Petroleum gas	Index-number: 649-113-00-2 CAS: 87741-01-3 EC: 289-339-5 REACH No.: 01-2119480480-41-xxxx	2.5 Press. Gas H280 2.2/1 Flam. Gas 1 H220 DECLK (CLP)*	>=7 % - < 10 %
Hydrocarbons, C9- C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS: 64742-48-9 EC: 919-857-5 REACH No.: 01-2119463258-33-xxxx	3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H336 2.6/3 Flam. Liq. 3 H226	>=3 % - < 5 %
tetrachioroethylene	Index-number: 602-028-00-4 CAS: 127-18-4 EC: 204-825-9 REACH No.: 01-2119475329-28-0000	3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.6/2 Carc. 2 H351 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/C2 Aquatic Chronic 2 H411 3.8/3 STOT SE 3 H336	>= 0.5 % - < 1 %

*DECLK (CLP): This substance is classified in accordance with Note K, Annex VI of EC Regulation CE 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-) P210-P403 shall apply.



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4. First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

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

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

For symptoms and effects due to the contained substances see chapter 11.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Follow the doctor's instructions.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

In case of fire, use a foam fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons: Water.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and combustion gases.

Hazardous combustion products:

Organic irritants, Carbon monoxide, Particulates, Asphyxiants

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Keep containers cool with water spray.

Move undamaged containers from immediate hazard area if it can be done safely.

Normal elements for fire fighting, such as a self-contained compressed air open-circuit respirator (EN 137), fire-retardant suit (EN469), flame-retardant gloves (EN 659) and fire boots (HO A29 or A30).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.



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6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For containment:

Limit in case of leakage of significant quantities of product.

Contain the spread of small quantities of product with earth, sand or other inert absorbent material.

For cleaning up:

Wash with plenty of water.

Wet clean or vacuum up solids.

Clear spills immediately

Other information:

Don't use a brush or compressed air for cleaning surfaces or clothing.

6.4. Reference to other sections

See also section 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Use localized ventilation system.

Exercise the greatest care when handling the product. Avoid jolting and friction.

Advice on general occupational hygiene:

Do not eat, drink or smoke when using this product.

Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

store in a cool, well ventilated place, away from heat, flames, sparks or other sources of ignition.

keep only in the original container away from sunlight neighborhoods.

avoid contact with skin and eyes, inhalation of vapours/mists/dusts.

do not use empty containers before they are cleaned.

contaminated clothing must be replaced before entering the dining areas.

At work do not eat or drink.

Do not smoke.

Avoid the accumulation of electrostatic charges.

Always keep in a well ventilated place.

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unquarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

Keep away from combustible materials.

Instructions as regards storage premises:

Safety electric system.

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular



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8. Exposure controls/personal protection

8.1. Control parameters

hydrocarbons c7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0 TLV-ACGIH - Notes: TLV TWA - 400ppm-1639,26 mg/m3 (ACGIH)

TLV STEL - 500ppm-2049,08 mg/m3 (ACGIH)

propane - CAS: 74-98-6

ACGIH

tetrachloroethylene - CAS: 127-18-4

EU - TWA(8h): 138 mg/m3, 20 ppm - STEL: 275 mg/m3, 40 ppm

ACGIH - TWA(8h): 25 ppm - STEL: 100 ppm

DNEL Exposure Limit Values

hydrocarbons c7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

Worker Professional: 300 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Professional: 2085 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 149 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Eye glasses with side protection. EN 166

Protection for skin:

Wear work clothes with long sleeves and protective footwear for professional use of category II (ref.Directive 89/686 / CEE and norm EN ISO 20344).

Wash with soap and water after removing protective clothing.

Protection for hands:

Protect hands with category II work gloves (ref. Directive 89/686 / EEC and standard EN 374).

Use PVC or nitrile rubber gloves.

Respiratory protection:

if the TLV thresholds are exceeded, use a mask with filter type A (against vapors of organic compounds) in accordance with EN 141.

Thermal Hazards:

Do not expose to temperatures exceeding 50 °C.

Environmental exposure controls:

emissions from production processes, including those from ventilation equipment should be inspected for the purposes of enforcement of environmental protection.

Appropriate engineering controls:

None

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Value	Method:	Notes
Spray can		
sweet of solvent		
Not Relevant		
Not Relevant		
	Spray can sweet of solvent Not Relevant	Spray can sweet of solvent Not Relevant



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Not Polovant		
Not Relevant		
Not Delevent		
		
		
		
Not Relevant		
		
>2		
0.675 kg/l +/-		
0.05		
Not Relevant		
Not Relevant		
Not Relevant		
>175°C		
Not Relevant		
Not Nelevant		
Value	Method:	Notes:
Not Relevant		
Not Relevant		
Not Relevant		
		
Not Relevant		
Hot Holovalit		
	0.05 Not Relevant Not Relevant >175°C Not Relevant Not Relevant Not Relevant Section 10.3 Not Relevant Value Not Relevant Not Relevant	Not Relevant Not Relevant Not Relevant Not Relevant 4 bar +/- 1 a 15°C >2 0.675 kg/l +/- 0.05 Not Relevant Not Relevant

10. Stability and reactivity

10.1 Reactivity

Avoid contact with strong acids and bases and oxidizing agents.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

It may catch fire on contact with oxidising mineral acids.

10.4 Conditions to avoid

Avoid the accumulation of electrostatic charges. keep away from heat, sources of ignition

10.5 Incompatible materials oxidizing agents

Acids, alkalis and alkaline metals

10.6 Hazardous decomposition products

The product is flammable, following combustion can lead to the formation of dangerous decomposition products by thermal decomposition can rid COx

During combustion it produces irritating gases



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11. Toxicological information

11.1 Information on toxicological effects

Toxicological information of the product:

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

hydrocarbons c7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 23.300 mg/m3 - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 2.920 mg/kg Test: LD50 - Route: Oral - Species: Rat > 5.840 mg/kg

12. Ecological information

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

The product is classified: Aquatic Chronic 2 - H411

hydrocarbons c7, n-alkanes, isoalkanes, cyclics - CAS: 64742-49-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish = 1.5 mg/l - Duration h: 48 Endpoint: LC50 - Species: Daphnia = 4 mg/l - Duration h: 24



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tetrachloroethylene - CAS: 127-18-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 5 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 8.5 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae 3.64 mg/l - Duration h: 72

12.2 Persistence and degradability

None N.A.

12.3 Bioaccumulative potential

N.A.

12.4 Mobility in soil

N.A.

12.5 Results of PBT and vPvB assessment

vPvB Substances: None PBT Substances: None

12.6 Other adverse effects

None

13. Disposal considerations

13.1 Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Contaminated packaging should be sent for recovery or disposal in compliance with national regulations on waste management reuse if possible. Product residues are to be considered hazardous waste. disposal must be entrusted to authorised waste management, in compliance with national and, where appropriate, local. CER 160504

14. Transport information

14.1 UN number

ADR, IATA, IMDG 1950

14.2 UN proper shipping name

ADR-Shipping Name: AEROSOLS, Flammable AEROSOLS, Flammable AEROSOLS, Flammable AEROSOLS, Flammable

14.3 Transport hazard class(es)

ADR-Class: 2.5 °F CAP. 2.2.2 1.6 UN1950

IATA-Class: 2.1

IMDG-Class: 2 Aerosols UN 1950

14.4 Packing group

ADR-Packing Group: N.A. IATA-Packing group: N.A. IMDG-Packing group: N.A.

14.5 Environmental hazards

Marine pollutant: Marine pollutant



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14.6 Special precautions for user

ADR-Transport category (Tunnel restriction code): D/E

IATA-Passenger Aircraft: 203 IATA-Cargo Aircraft: 203

IMDG-Technical name: AEROSOLS, Flammable

IMDG-Page: 2102

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Nο

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a, E2

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

16. Other information

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.



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H411 Toxic to aquatic life with long lasting effects.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr.1272/2008	Classification procedure
Aerosols 1, H222, H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.

ICAO. International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

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STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

