MERKUR 621

Version: *2*.00 **Revision Date 2022/02/24**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	**MERKUR 621**
REACH No.	01-2119490412-42-0003
Substance name (REACH / CLP)	Petrolatum

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

Use of the Substance/Mixture	**Use category:** Raw material for industry
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	Hywax GmbH Worthdamm 13 - 27 20457 Hamburg Germany Telephone: +49-40-78115-0 Telefax: +49-40-78115-777
Information (Product safety):	Telephone: +49-40-78115-450 Telefax: +49-40-78115-298 E-mail: sds.wax@hywax.com

1.4 Emergency telephone number

Emergency telephone number	+49-171-429-3850

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION

Blend of refined paraffinic hydrocarbons; petroleum jelly; petrolatum; vaseline

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

No hazardous ingredients

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	No hazards which require special first aid measures.
If inhaled	Do not breathe vapours or spray mist. If symptoms persist, call a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and water.
In case of eye contact	Protect unharmed eye. Remove contact lenses. Flush eyes with water as a precaution. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Risks: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO2), Dry powder, Foam, Sand, Water mist, Water spray jet
Unsuitable extinguishing media	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent fire extinguishing water from contaminating surface water or the ground

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling For personal protection see section 8.
Avoid formation of aerosol.
No special technical protective measures required.
No special handling advice required.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition.
Normal measures for preventive fire protection.
Take measures to prevent the build up of electrostatic charge.

Temperature class T2

Fire-fighting class B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from frost, heat and sunlight.

Advice on common storage Keep away from oxidizing agents.

Storage class (TRGS 510) 11: Combustible Solids

Other data No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	Breathing apparatus needed only when aerosol or mist is formed. Respiratory protection complying with EN 143.
Hand protection	Material: Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing
Hygiene measures	When using do not eat, drink or smoke.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	Pasty solid, gel
Colour	yellow
Odour	odourless
Odour Threshold	Not relevant
pH	Not applicable
Solidification / Setting point	48.0 - 56.0 °C; ISO 2207
Melting point/range	40.0 - 60.0 °C; Ph. Eur. 2.2.17

Boiling point/boiling range	not determined
Flash point	> 200 °C
Evaporation rate	No data available
Flammability (solid, gas)	not auto-flammable
Lower explosion limit	15 g/m3
Upper explosion limit	> 1,000 g/m3
Vapour pressure	< 0.01 hPa
Relative vapour density	Not applicable
Density	ca.0.790 - 0.840 g/cm3; 80 °C; DIN EN ISO 12185
Relative density	not determined
Solubility in other solvents	not determined
Water solubility	insoluble
Partition coefficient: n-octanol/water	not determined
Ignition temperature	ca. 360 °C
Viscosity, kinematic	5.0 - 9.0 mm2/s; 100 °C; ASTM D 7042
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable under recommended storage conditions.

10.2 Chemical stability

Note	No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	None known.

10.4 Conditions to avoid

Conditions to avoid	Protect from frost, heat and sunlight.

10.5 Incompatible materials to avoid

Materials to avoid	Oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Thermal decomposition	To avoid thermal decomposition, do not overheat.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	Petrolatum; Petrolatum: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 Category approach (literature value) Based on available data, the classification criteria are not met. The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	Petrolatum; Petrolatum: No data available
Acute dermal toxicity	Petrolatum; Petrolatum: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402 Category approach (literature value) Based on available data, the classification criteria are not met. The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Skin irritation	Petrolatum; Petrolatum: Rabbit: not irritating; OECD Test Guideline 404 Category approach (literature value) Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation	Petrolatum; Petrolatum: Rabbit: slightly irritating; OECD Test Guideline 405 Category approach (literature value) Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation	Petrolatum; Petrolatum: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 Category approach (literature value) Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro	Petrolatum; Petrolatum: In vitro tests did not show mutagenic effects Category approach (literature value)
Genotoxicity in vivo	Petrolatum; Petrolatum: In vivo tests did not show mutagenic effects Category approach (literature value)
Remarks	Petrolatum; Petrolatum: Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Petrolatum; Petrolatum: Animal testing did not show any carcinogenic effects. Category approach

(literature value)

Remarks Petrolatum; Petrolatum:
Classified based on the conditions cited in Nota N (Regulation (EC) 1272/2008, Annex VI, Part 3, Note N)

Remarks Petrolatum; Petrolatum:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity Petrolatum; Petrolatum:
Rat; OECD Test Guideline 421
No effects on fertility
(literature value)
Category approach

RemarksReproductive toxicity Petrolatum; Petrolatum:
Based on available data, the classification criteria are not met.

Teratogenicity Petrolatum; Petrolatum:
Rat; OECD Test Guideline 414
Did not show teratogenic effects in animal experiments.
(literature value)
Category approach

Remarks- Teratogenicity Petrolatum; Petrolatum:

Remarks-Teratogenicity Petrolatum; Petrolatum:
Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks Petrolatum; Petrolatum:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks Petrolatum; Petrolatum:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity Petrolatum; Petrolatum:
Oral; 90-day
NOAEL: 1,500 mg/kg (based on body weight and day)
(literature value)
Category approach

Petrolatum; Petrolatum:
Rabbit; Dermal; 28-day
NOAEL: 1,000 mg/kg (based on body weight and day)
(literature value)
Category approach

Petrolatum; Petrolatum:
Rat; Dermal; 90-day
NOAEL: 2,000 mg/kg (based on body weight and day)
(literature value)
Category approach

Aspiration hazard

Aspiration toxicity Petrolatum; Petrolatum:
No aspiration toxicity classification

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	Petrolatum; Petrolatum: LL50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; static test; OECD Test Guideline 203 (literature value) Category approach
Toxicity to fish - Chronic toxicity	Petrolatum; Petrolatum: (28 d) Oncorhynchus mykiss (rainbow trout); mortality; QSAR Category approach No toxicity at the limit of solubility (literature value)
Toxicity to daphnia and other aquatic invertebrates	Petrolatum; Petrolatum: EL50 (48 h) Daphnia magna (Water flea): > 10,000 mg/l ; OECD Test Guideline 202 (literature value) Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	Petrolatum; Petrolatum: NOEL (21 d) Daphnia magna (Water flea): 10 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211 (literature value) Category approach
Toxicity to aquatic plants	Petrolatum; Petrolatum: NOEL (72 h) Pseudokirchneriella subcapitata (algae): >= 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value) Category approach
Toxicity to bacteria	Petrolatum; Petrolatum: NOEL (4 d) Photobacterium phosphoreum: > 1.93 mg/l; static test; DIN 38412 Category approach (literature value) The substance is not to be considered to be inhibitory to bacteria.
Toxicity to soil dwelling organisms	Petrolatum; Petrolatum: Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Toxicity to terrestrial flora	Petrolatum; Petrolatum: Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Toxicity for other terrestrial non-mammalian fauna	Petrolatum; Petrolatum: Studies on birds do not need to be conducted due to large mammalian dataset. Unlikely to pose a hazard to birds.

12.2 Persistence and degradability

Biodegradability	Petrolatum; Petrolatum: inherently biodegradable; aerobic; OECD Test Guideline 302C Category approach (literature value)

12.3 Bioaccumulative potential

Bioaccumulation	Petrolatum; Petrolatum: Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.4 Mobility in soil

Mobility	Petrolatum; Petrolatum: Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.5 Results of PBT and vPvB assessment

Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Results of PBT assessment	Petrolatum; Petrolatum: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

General advice	Petrolatum; Petrolatum: None known.
Endocrine disrupting potential	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific., If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty remaining contents., Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods

ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks	No information available.

SECTION 15: REGULATORY INFORMATION

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

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable

NOTIFICATION STATUS

Australian Inventory of Industrial Chemicals	ZAU_AIIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance. An annex to the MSDS is not required.

SECTION 16: OTHER INFORMATION

Further information: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level

DSL	Domestic Substances List
EC…	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC…	Lethal Concentration, ...%
LD…	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse