

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Product name: Paraffin Wax (PHC 4021)
Paraffin Wax (PHC 4146)
Paraffin Wax (PHC 4448)
Paraffin Wax (PHC 5254)
Histology Wax Low Melt Point (PHC 5254SF)
Paraffin Wax (PHC 5457)
Histology Wax Specially Filtered (PHC 5457SF)
Paraffin Wax (PHC 5658 PH)
Paraffin Wax (PHC 5860)
Paraffin Wax / Paraffin Wax 60-63 (PHC 6062 / PHC 6062 PH)
Paraffin Wax 145/150 (PHC 6265)
Paraffin Wax (PHC 6568)
Histology Wax (PHC 9052)
Histology Wax (PHC 9056)
Histology Wax (PHC 9060)
REACH registered name: Paraffin waxes and Hydrocarbon waxes
REACH registered No: 01-2119488076-30
CAS number: 8002-74-2
EC number: 232-315-6

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

Intended uses: Chemical industry, Cosmetic, Pharmaceutical, Arts & Crafts,
Industrial, as raw material or for further processing.
Uses advised against: No information available

1.3 Details of the supplier of the safety data sheet

Name: Poth Hille & Co. Ltd
Address: 18 Easter Ind. Park, Ferry Lane South, Rainham, Essex,
RM13 9BP
Phone Number: +44 1708 526828 (Monday - Friday 08.00-17.00)
Fax Number: +44 1708 525695
Email: info@poth-hille.co.uk

1.4 Emergency Number

+44 1708 526828 (Monday - Friday 08.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance of Mixture:

Does not contain any components which are hazardous according to CLP Regulation 1272/2008/EC

2.2 Label Elements:

Does not require a hazard warning label in accordance with CLP Regulation 1272/2008/EC.

2.3 Other Hazards:

PBT: This product is not identified as a PBT/ vPvB Substance according to REACH Annex XIII.
Hot liquid may cause thermal burns.

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

Substance Name	CAS-No	EC Number	REACH Reg No
Paraffin waxes and hydrocarbon waxes	8002-74-2	232-315-6	01-02119488076-30

3.2 Mixtures

Not applicable

4. **FIRST AID MEASURES**

4.1 Description of First Aid Measures

General information: Remove contaminated/saturated clothing. In case of accident or illness seek medical advice immediately.

Inhalation: Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, seek medical advice.

Skin Contact: Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, seek medical advice.

Eye Contact: Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, seek medical advice.

Ingestion: Do not induce vomiting. No emergency measures are necessary but if adverse health effects follow or large amounts are swallowed, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: High concentration of vapours may induce: Headache, nausea, dizziness. Irritant effect to the respiratory tract.

Skin Contact: May cause slight irritation to the skin. Heated product may cause burns.

Eye Contact: May cause slight irritation to eyes.

Ingestion: May cause nausea.

4.3 Indication of any immediate medical attention and special treatment needed

In contact with or splashed by melted product, quickly cool area with water.

5. **FIRE-FIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media: Foam, Dry Chemical Powder, Carbon Dioxide.
Unsuitable extinguishing media: Water.

5.2 Special hazards arising from the substance or mixture

Slight flammability hazard when exposed to heat or flame. During a fire, toxic gases (carbon monoxide, nitrous gases) may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters

Only suitably trained personnel should attempt to tackle fires. Breathing apparatus and protective clothing should be worn. Do not remain in the immediate vicinity without respiratory protective equipment and protective clothing.

6. **ACCIDENTAL RELEASE**

6.1 **Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Wear suitable protective clothing. See section 8. Stop leak if safe to do so. Remove sources of ignition.

For emergency responders: Wear suitable protective clothing and breathing apparatus. See section 8. Stop leak if safe to do so. Remove sources of ignition

6.2 **Environmental precautions**

Water may be used to flush spills away from sources of ignition. Prevent spreading by damming. Do not allow the product to enter public drainage system or open water course. Avoid release to the environment.

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

Containment: Stop leak if safe to do so. Use damming system to prevent spreading.

Cleaning up: Use sand or active clay to absorb spilled substance and remove to containers for disposal. When in liquid state, cool and allow to solidify.

6.4 **Reference to other sections**

See sections 8 and 13

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**

Recommendations: Handle in accordance with GMP and safety procedures. The molten product can cause severe burns. Use molten product in well ventilated areas. Use personal protective equipment as required.

General advice: Do not eat or drink in immediate vicinity. Wash hands after use. Remove any contaminated clothing before eating or drinking.

7.2 **Conditions for safe storage including any incompatibilities**

Keep material sealed, dry and out of direct sunlight. Avoid heat and ignition sources. Store in original containers or other high density polyethylene containers which are sealable and clearly labelled. Clean up spilled material immediately.

7.3 **Specific end use(s)**

No data available

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control Parameters**

TWA TLV (ACGIH): 2mg/m³ (paraffin wax fumes). However in all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.

DNEL: No data available

PNEC: No data available

PEL: No data available

REL: No data available

8.2 **Exposure Controls**

Appropriate engineering measures: Facilities storing or utilising this material should be equipped with an eyewash facility.

Eye protection: Wear appropriate eye protection with side shields (EN166).

Skin protection:	Use impervious gloves (EN374). PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended.
Respiratory protection:	Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.
Thermal Hazards:	Thermal hazards only applicable when material is heated. Use appropriate heat resistant gloves.
Environmental Exposure Controls:	See sections 6, 7, 12 and 13.

9. **PHYSICAL & CHEMICAL PROPERTIES**

9.1 **Information on basic chemical and physical properties**

Physical State:	Solid
Colour:	White / semi-translucent
Odour:	None
Melting point/Congelation point:	52-66°C
Initial boiling point/range:	>300°C
Flammability:	May be combustible at high temperatures
Explosion Limits:	Does not apply to solids
Flash point:	Does not apply to solids
Auto ignition temperature:	Does not apply to solids
Decomposition temperature:	No data available
pH:	Neutral
Kinematic Viscosity:	Does not apply to solids
Solubility in water:	Insoluble
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Relative density (at 15°C):	0.83-0.86g/cm ³
Relative vapour density:	Does not apply to solids
Particle characteristics:	~5-10mm pellet or solid slab

9.2 **Other information**

No data available

10. **STABILITY AND REACTIVITY**

10.1 **Reactivity**

Not reactive under normal storage and handling conditions (see section 7). May react with strong oxidising agents, especially at high temperatures.

10.2 **Chemical stability**

Stable under normal storage and handling conditions.

10.3 **Possibility of hazardous reactions**

No hazardous reactions are expected to occur under normal storage and handling conditions.

10.4 **Conditions to avoid**

Extremes of temperature (preferably, store between 5 and 39°C). The product is combustible when heated >300°C.

10.5 **Incompatible materials**

May react with strong oxidants (e.g. chlorates, peroxides).

10.6 Hazardous decomposition products

Thermal decomposition or incomplete combustion may produce carbon monoxide, nitrous gases and irritating fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in regulation (EC) 1272/2008

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Oral: LD50 >5000mg/kg (OECD 401)

Inhalation: No data available

Dermal: LD50 >2000mg/kg (OECD 402)

Skin corrosion/irritation

Not irritant (OECD 404)

Serious eye damage/eye irritation

Not irritant (OECD 405)

Respiratory or skin sensitisation

Non-sensitising (OECD 406)

Germ cell mutagenicity

Negative (OECD 476)

Carcinogenicity

Not classified as carcinogenic – based on available data, the classification criteria are not met.

Reproductive toxicity

NOAEL: >1000mg/kg bw/day

Specific target organ toxicity – single exposure

Not classified as a specific target organ toxicant (single exposure)

Specific target organ toxicity – repeated exposure

Not classified as a specific target organ toxicant (repeated exposure)

Aspiration hazard

Not classified as presenting an aspiration hazard - based on available data, the classification criteria are not met.

11.2 Information on other hazards

No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (Pimephales promelas): LL50 >100mg/l (96h) (OECD203/ISO7346/EEC84/449/V, C1)

Aquatic toxicity (Pseudokirchnerella subcapitata): NOAEL 100mg/l (OECD 201)

Aquatic toxicity (Daphnia magna): EL50 >10000mg/l (96h) (OECD202)

12.2 Persistence and degradability

Biodegradation: 31% in 28 days

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

Non-volatile and absorption into soil solid phase not expected.

12.5 Results of PBT & vPvB assessment

Not identified as a PBT/ vPvB Substance according to REACH Annex XIII.

12.6 Endocrine Disrupting Properties

Not identified as an endocrine disrupting substance

12.7 Other adverse effects

No data available

13. **DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Treat in accordance with EU directive 2008/98/EC. Transport to authorised waste location or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31/EC apply). Do not dispose to drains or sewage systems.

14. **TRANSPORT INFORMATION**

14.1 UN number

Not classified

14.2 UN Proper shipping name

Not Classified

14.3 Transport Hazard Class(es)

Not Classified

14.4 Packing Group

Not Classified

14.5 Environmental Hazards

None

14.6 Special Precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

Not classified

15. **REGULATORY INFORMATION**

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

EU Regulations: Regulation [EC] 1272/2008 including amendments
Regulation [EC] 1907/2006 including amendments (EC 2015/830)

15.2 Chemical Safety Assessment

The supplier has not performed a chemical safety assessment of this substance.

16. **OTHER INFORMATION**

Indication of changes: All sections revised according to Regulation [EC] No 1272/2008 [CLP] in preparation for the 1 June 2015 deadline.

Version number	Date reviewed/revised	Indication of change
V12	08/01/2019	Product identifiers updated (section 1)
V13	10/04/2019	Product identifiers updated (section 1)
V14	19/01/2021	Product identifiers updated (section 1)
V15	08/08/2022	Updated according to EU 2020/878
V16	22/11/2022	Particle characteristics updated (section 9)
V16	28/08/2024	Document reviewed – no amendment required
V17	27/05/2025	Product identifiers updated (section 1)
V18	01/08/2025	Product identifiers updated (section 1)

Abbreviations & Acronyms:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No:	Chemical Abstract Service number
CLP:	Classification Labelling and Packaging Regulation
DNEL:	Derived No Effect Level
EC:	European Commission
EC No:	European Chemical Number – EINECS – ELINCS
ECHA:	European Chemical Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
ES:	Exposure Scenario
LD50:	Median Lethal Dose
LC50:	Median Lethal Concentration
NOAEL:	No Observed Adverse Effect Level
PEL:	Permissible Exposure Limit
PNEC:	Predicted No Effect Level
REACH:	Registration, Evaluation, Authorisation & restriction of Chemicals
REL:	Recommended Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

Hazard Statements/Precautionary statements:

None

The information contained herein is for health and safety guidance only and does not constitute a product specification. It is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.