# PARAFFIN WAX Bisley International LLC

Chemwatch Hazard Alert Code: 1

Chemwatch: 11994 Version No: 12.1.4

Version No: 12.1.4.8 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

#### Issue Date: 02/12/2017 Print Date: 06/07/2021 S.GHS.USA.EN

## **SECTION 1 Identification**

Product Identifier	
Product name	PARAFFIN WAX
Chemical Name	paraffin wax
Chemical formula	C24H50 C20H42 CnH2n
Other means of identification	Not Available
CAS number	8002-74-2

#### Recommended use of the chemical and restrictions on use

Alkanes from hexadecane upwards form the most important components of fuel oil and lubricating oil. In latter function they work at the same<br/>time as anti-corrosive agents, as their hydrophobic nature means that water cannot reach the metal surface. Many solid alkanes find use as<br/>paraffin wax, for example in candles. This should not be confused however with bees wax, which consists primarily of esters. Alkanes with a chain<br/>length of approximately 35 or more carbon atoms are found in bitumen (asphalt), used for example in road surfacing.<br/>Used in the manufacture of wax (waxed) waterproof wrapping paper and wax coatings to give water resistance, water shedding, to wood, fabrics,<br/>cork, plywood. Substantial component of hot melt adhesives and of candles. In lubricants, greases, in floor and car polishes, cosmetics,<br/>ointments, inks, extraction of perfumes, in low temperature electrical insulation. As a covering for food products, cheese.

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Bisley International LLC
Address	1790 Hughes Landing Boulevard Suite 400 The Woodlands TX 77380 United States
Telephone	+1 (844) 424 7539
Fax	Not Available
Website	www.bisley.biz
Email	compliance@bisley.biz

#### Emergency phone number

Association / Organisation	Bisley International LLC	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+1 855 237 5573	+61 2 9186 1132	
Other emergency telephone numbers	+61 2 9186 1132	+1 855-237-5573	

Once connected and if the message is not in your prefered language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

#### SECTION 2 Hazard(s) identification

#### Classification of the substance or mixture

Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification	Eye Irritation Category 2B
Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Warning

# PARAFFIN WAX

H320 Causes eye irritation.

#### Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.				
Precautionary statement(s) Re	Precautionary statement(s) Response				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P337+P313	If eye irritation persists: Get medical advice/attention.				

#### Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

# **SECTION 3 Composition / information on ingredients**

#### Substances

CAS No	%[weight]	Name
8002-74-2	>98	paraffin wax
Not Available		as
Not Available		solid straight chain hydrocarbons C20-C35 range

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### Mixtures

See section above for composition of Substances

# **SECTION 4 First-aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> <li>For THERMAL burns:</li> <li>Do NOT remove contact lens</li> <li>Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.</li> <li>Seek urgent medical assistance, or transport to hospital.</li> </ul>
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Fuch skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth. DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury. DO NOT break blister or remove solidified material. Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances. Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances. Reasure. Treat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. For thermal burns: De Contraminate area around burn. Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or orintments; this may cause infection. Go NOT apply butter is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply burter or orintments; this may cause infection. Go NOT apply butter is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butte

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	To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): <ul> <li>Lay the person flat.</li> <li>Elevate feet about 12 inches.</li> <li>Elevate burn area above heart level, if possible.</li> <li>Cover the person with coat or blanket.</li> <li>Seek medical assistance.</li> </ul> For third-degree burns Seek immediate medical or emergency assistance. In the mean time: <ul> <li>Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound.</li> <li>Separate burned toes and fingers with dry, sterile dressings.</li> <li>Do not soak burn in water or apply ointments or butter; this may cause infection.</li> <li>To prevent shock see above.</li> <li>For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway.</li> <li>Have a person with a facial burn sit up.</li> <li>Check pulse and breathing to monitor for shock until emergency help arrives.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

+ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.

- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- + High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

#### **SECTION 5 Fire-fighting measures**

#### Extinguishing media

Use of carbon tetrachloride to extinguish a wax fire produced an explosion. It is postulated that to a violent reaction between unsaturated wax components and carbon tetrachloride initiated by free radicals from decomposing peroxides might have occurred; alternately contact of cold water with the molten material might have lead to a vapour explosion.

+ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

- Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Foam.Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

#### Special protective equipment and precautions for fire-fighters

-hh	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> <li>CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.</li> <li>Foaming may cause overflow of containers and may result in possible fire.</li> </ul>

#### **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures

See section 8

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# PARAFFIN WAX

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	Moderate hazard.  CAUTION: Advise personnel in area.  Alert Emergency Services and tell them location and nature of hazard.  Control personal contact by wearing protective clothing.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling	<ul> <li>The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.)</li> <li>It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns.</li> <li>Fumes or vapours emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin.</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (&lt;=1 m/sec until fill pipe submerged to twice its diameter, then &lt;= 7 m/sec).</li> <li>Avoid splash filling.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> </ul>				
	<ul> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> </ul>				
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>				

#### Conditions for safe storage, including any incompatibilities





X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

# **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	paraffin wax	Paraffin wax fume	2 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	paraffin wax	Paraffin wax fume	2 mg/m3	Not Available	Not Available	Not Available
Emergeney Limite						

# Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
PARAFFIN WAX	Not Available	Not Available	Not Available

#### PARAFFIN WAX

Ingredient	Original IDLH	Revised IDLH	
paraffin wax	Not Available	Not Available	
Exposure controls			
Appropriate engineering controls	For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material. Keep dry!! Processing temperatures may be well above boiling point of water, so wet or damp material may cause a serious steam explosion if used in unvented equipment. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.		
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care.</li> <li>When handling hot materials wear heat resistant, elbow length gloves.</li> <li>Rubber gloves are not recommended when handling hot objects, materials</li> <li>Protective gloves eg. Leather gloves or gloves with Leather facing</li> <li>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</li> <li>polychloroprene.</li> <li>nitrile rubber.</li> </ul>		
Body protection	See Other protection below		
Other protection	<ul> <li>When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li>Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure.</li> <li>CAUTION: Vapours may be irritating.</li> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>		

#### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

· Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

For molten materials:

# **SECTION 9** Physical and chemical properties

Appearance

#### Information on basic physical and chemical properties

A pe	etroleun	n wa
-		

The chemicals in this group are hydrocarbon, paraffin and slack waxes that are derived from lubricating oil basestocks (also known as base oils). The chemical composition depends on both the original crude oil and on the processes used during refining. The chemicals are UVCBs (unknown or variable composition, complex reaction products and biological materials) containing variable amounts of straight and branched chain saturated hydrocarbons. The chemical components have a wide range of molecular weights (from 290-630 Da), with carbon numbers usually between C12 to C85, with the majority exceeding C20, and boiling points between 300 and 600 deg C. The chemicals in this group are usually not defined by detailed chemical composition but by process history, physical properties and product specifications. Colourless, translucent or white solid with a faint odour; floats on water. Soluble in benzene, chloroform, ether, carbon disulfide, oils. Available as B.P. Grade. Mixes with vegetable oils, fats. A complex combination of hydrocarbons obtained from petroleum fractions (by solvent crystallization or the sweating process) or from the catalytic hydrogenation of carbon monoxide (the Fischer-Tropsch Process). It consists

	predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C20.		
Physical state	Divided Solid	Relative density (Water - 1)	0.9
i nysicai state		Relative density (Water = 1)	0.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	245
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	38-60	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	> 370	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	198	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Processing for an overly long time or processing at overly high temperatures may cause generation and release of highly irritating vapours, which irritate eyes, nose, throat, causing red itching eyes, coughing, sore throat. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability
Persons with impaired respiratory function, airway diseases and conditions such as emphysema of chronic bronchitis, may incur further disability
Inhaled if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
<ul> <li>Inhalation hazard is increased at higher temperatures.</li> <li>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</li> <li>Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure.</li> <li>CAUTION: Vapours may be irritating.</li> </ul>
Ingestion Ingest
Skin Contact       Molten material is capable of causing burns.         The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.         Open cuts, abraded or irritated skin should not be exposed to this material         The material may accentuate any pre-existing dermatitis condition         Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.         There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Eye Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).

	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Implantation studies in rats show that paraffin oils may cause tumours. As a general rule, the highly refined paraffins are believed to contain less suspect polyaromatic hydrocarbons than less refined grades or waxes derived from napthenic base-stocks.		
Chronic	Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung. Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.		
	TOVICITY	IDDITATION	
	dormal (rat)   D50: > 2000 ma/ka <sup>[1]</sup>	Eve (rabbit): 100 n	ng/24 hr-mild
	Oral (Part) LDS0. >2000 mg/kg <sup>[1]</sup>		
paranin wax	Orai(Rat) LD50, >5000 mg/kgt <sup>13</sup>	Eye. no adverse e	meet observed (not initiating).
		Skiri (rabbil). 500 r	
		Skin: no adverse e	effect observed (not irritating).
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic</li> </ol>	ances - Acute toxicity 2.* Value obtair Effect of chemical Substances	ned from manufacturer's SDS. Unless otherwise
PARAFFIN WAX	<ul> <li>"Hydrocarbon wax" describes a group of solid C20 to C36 paraffinic hydrocarbons which are not absorbed in the gastro-intestinal tract and in small quantity will pass through undigested.</li> <li>Refined waxes are used widely in cosmetic surgery over many years and this demonstrates their low toxicity: many guidelines exist for their safe use. However, occasionally there are reports of adverse effects with these products. Deposits under the skin, referred to as "paraffinoma" have been described, but these are not normally associated with other progressive changes.</li> <li>Long-term toxicity studies indicated that petroleum-derived paraffin and microcrystalline waxes are non-toxic and do not cause cancer.</li> <li>Animal studies indicate that normal, branched and cyclic paraffins are absorbed form the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.</li> <li>The major classes of hydrocarbons are well absorbed in a greater extent than iso- or cyclo-paraffins.</li> <li>The materials included in the Lubricating Base Olis category are related from both process and physical-chemical perspectives;</li> <li>The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing;</li> <li>Distillate base oils receiving the same degree or extent of processing the oil receives.</li> <li>The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing;</li> <li>Distillate base oils contain the highest levels of the degreed processing the oil receives.</li> <li>The potential toxicity of residual base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing an</li></ul>		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×

Acute Toxicity	×	Carcinogenicity	X
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

X - Data either not available or does not fill the criteria for classification Legend: Data available to make classification

#### **SECTION 12 Ecological information**

Toxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffin wax	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted fror V3.12 (QSAR Data 6. NITE	m 1. IUCLID Toxicity Data 2. Europe ECHA Registe {} - Aquatic Toxicity Data (Estimated) 4. US EPA, Ec (Japan) - Bioconcentration Data 7. METI (Japan) -	red Substances - Ecotoxicological Inform cotox database - Aquatic Toxicity Data 5 Bioconcentration Data 8. Vendor Data	mation - Aquatic Toxicity 3. E i. ECETOC Aquatic Hazard .	EPIWIN Suite Assessment

for petroleum waxes:

Environmental fate:

Environmental rate: Most hydrocarbon components of substances in this Group will have little or no tendency to partition to air . The half lives for degradation of these hydrocarbons by reaction with hydroxyl radicals, in the troposphere, under the influence of sunlight, will all be less than one day, by extrapolation from the data quoted by Atkinson. Accordingly, any hydrocarbon material which does partition to air will be rapidly photodegraded As hydrocarbon number increases above C13, as is the case for the majority of the wax constituents, Log K values >6 are predicted. Substances having Log K estimates greater than 6 are characterised by extremely large molecular weight and subsequent hydrophobicity, therefore no significant aqueous exposures or bioaccumulation are expected to occur. Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients
Discourse letter water that		
Bioaccumulative potential		
Ingredient	Bioaccumulation	
	No Data available for all ingredients	
Mobility in soil		
Ingredient	Mobility	
	No Data available for all ingredients	

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: • Reduction • Reuse • Recycling • Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. • DO NOT allow wash water form cleaning or process equipment to enter drains. • It may be necessary to collect all wash water for treatment before disposal. • In all cases disposal to sever may be subject to local laws and regulations and these should be considered first. • Where in doubt contact the responsible authority.

#### **SECTION 14 Transport information**

# Marine Pollutant NO

## Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to Annex II of MARPOL and the IBC code

```
Not Applicable
```

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
paraffin wax	Not Available
Transport in bulk in accordanc	e with the ICG Code

# Product name Ship Type paraffin wax Not Available

# **SECTION 15 Regulatory information**

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

#### paraffin wax is found on the following regulatory lists

US ACGIH Threshold Limit Values (TLV) US NIOSH Recommended Exposure Limits (RELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### Federal Regulations

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	
Gas under pressure	
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	
Pyrophoric Gas	

Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	
Specific target organ toxicity (single or repeated exposure)	
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None Reported

# State Regulations

US. California Proposition 65 None Reported

# National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (paraffin wax)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 Other information**

Revision Date	02/12/2017
Initial Date	Not Available

# **SDS Version Summary**

Version	Date of Update	Sections Updated
11.1.2.1	31/05/2014	Physical Properties, Synonyms
12.1.2.1	02/12/2017	Acute Health (swallowed), Fire Fighter (extinguishing media), Handling Procedure, Toxicity and Irritation (Toxicity Figure)
12.1.3.1	10/05/2021	Regulation Change
12.1.4.1	24/05/2021	Regulation Change
12.1.4.2	30/05/2021	Template Change
12.1.4.3	04/06/2021	Template Change
12.1.4.4	05/06/2021	Template Change
12.1.4.5	09/06/2021	Template Change
12.1.4.6	11/06/2021	Template Change
12.1.4.7	15/06/2021	Template Change

#### PARAFFIN WAX

Version	Date of Update	Sections Updated
12.1.4.8	05/07/2021	Template Change

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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