Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
3M™ Perfect-It™ Paste Wax PN 39526, 38526, 39526S, 33526

Product Identification Numbers
60-4550-3090-2

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Wax for Automotive paint

1.3. Supplier's details

Address:	3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone:	080-45543000, contact Product EHS team
E Mail:	productehs.in@mmm.com
Website:	http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Flammable Solid: Category 1.
Skin Corrosion/Irritation: Category 3.

2.2. Label elements
Signal Word
DANGER!

Symbols
Flame |

Pictograms

HAZARD STATEMENTS:

H228	Flammable solid.
H316	Causes mild skin irritation.

PRECAUTIONARY STATEMENTS

General:

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.

Prevention:

P210A	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P370 + P378L	In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Naphtha (petroleum), hydrotreated heavy	64742-48-9	15 - 40
Distillates (petroleum), hydrotreated light	64742-47-8	15 - 35
Carnauba Wax	8015-86-9	10 - 30
Siloxanes And Silicones, Di-Me	63148-62-9	7 - 13
Montan Wax	68476-03-9	3 - 7
Synthetic Hydrocarbon Mixture	Trade Secret	1 - 5
Silicone Resin	Trade Secret	0.5 - 1.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

No need for first aid is anticipated.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

No need for first aid is anticipated.

If swallowed

No need for first aid is anticipated.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Observe precautions from other sections.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities
Store away from acids. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

8.2. Exposure controls

8.2.1. Engineering controls
Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used:Nitrile rubber.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Color	Light Yellow
Odor	Coconut
Odour threshold	*No data available.*
pH	*No data available.*
Melting point/Freezing point: NA	95 ºC
Boiling point/Initial boiling point/Boiling range	150 ºC
Flash point	65.6 ºC [*Details:*FLAMMABLE SOLID]
Evaporation rate	1 [*Ref Std:*WATER=1]
Flammability (solid, gas)	Flammable Solid: Category 1.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Vapor Density and/or Relative Vapor Density	>=1 [*Ref Std:*AIR=1]
Density	0.8309 g/cm3
Relative density	0.8309 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*

Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Viscosity/Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	563 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	33.8 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	67.7 % weight
VOC less H2O & exempt solvents	563 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No data available.*

Nanoparticles
This material does not contain nanoparticles.

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Sparks and/or flames.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
No known health effects.

Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye contact
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion
No known health effects.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Naphtha (petroleum), hydrotreated heavy	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Distillates (petroleum), hydrotreated light	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Naphtha (petroleum), hydrotreated heavy	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Dermal	Rabbit	LD50 > 5,000 mg/kg
Naphtha (petroleum), hydrotreated heavy	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Carnauba Wax	Dermal		LD50 estimated to be > 5,000 mg/kg
Carnauba Wax	Ingestion	Rat	LD50 > 8,800 mg/kg
Siloxanes And Silicones, Di-Me	Dermal	Rabbit	LD50 > 19,400 mg/kg
Siloxanes And Silicones, Di-Me	Ingestion	Rat	LD50 > 17,000 mg/kg
Montan Wax	Dermal	Rat	LD50 > 2,000 mg/kg
Montan Wax	Ingestion	Rat	LD50 > 15,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated light	Rabbit	Minimal irritation
Carnauba Wax	Professional judgement	No significant irritation
Siloxanes And Silicones, Di-Me	Rabbit	No significant irritation
Montan Wax	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
Carnauba Wax	Professional judgement	No significant irritation
Siloxanes And Silicones, Di-Me	Rabbit	No significant irritation
Montan Wax	Rabbit	No significant irritation

Sensitization:

Skin Sensitisation

Name	Species	Value
Naphtha (petroleum), hydrotreated heavy	Guinea pig	Not classified
Distillates (petroleum), hydrotreated light	Guinea pig	Not classified
Montan Wax	Mouse	Not classified

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Naphtha (petroleum), hydrotreated heavy	In Vitro	Not mutagenic
Naphtha (petroleum), hydrotreated heavy	In vivo	Not mutagenic
Distillates (petroleum), hydrotreated light	In Vitro	Not mutagenic
Distillates (petroleum), hydrotreated light	In vivo	Not mutagenic
Montan Wax	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Naphtha (petroleum), hydrotreated heavy	Not specified.	Not available	Not carcinogenic
Distillates (petroleum), hydrotreated light	Not specified.	Not available	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Naphtha (petroleum), hydrotreated heavy	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	premating & during gestation
Naphtha (petroleum), hydrotreated heavy	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Naphtha (petroleum), hydrotreated heavy	Not specified.	Not classified for development	Rat	NOAEL Not available	during gestation
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Distillates (petroleum), hydrotreated light	Not specified.	Not classified for development	Rat	NOAEL Not available	during gestation
Montan Wax	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Montan Wax	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Montan Wax	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

Aspiration Hazard

Name	Value
Naphtha (petroleum), hydrotreated heavy	Aspiration hazard
Distillates (petroleum), hydrotreated light	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Green Algae	Estimated	72 hours	EL50	>1,000 mg/l
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Rainbow trout	Estimated	96 hours	LL50	>1,000 mg/l
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Water flea	Estimated	48 hours	EL50	>1,000 mg/l
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Green Algae	Estimated	72 hours	NOEL	1,000 mg/l
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Water flea	Estimated	21 days	NOEL	>1 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Crustacea other	Estimated	48 hours	LL50	>10,000 mg/l
Distillates (petroleum),	64742-47-8	Green Algae	Estimated	72 hours	EL50	>1,000 mg/l

hydrotreated light						
Distillates (petroleum), hydrotreated light	64742-47-8	Rainbow trout	Estimated	96 hours	LL50	>88,444 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Water flea	Estimated	48 hours	EL50	>1,000 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green Algae	Estimated	72 hours	NOEL	1,000 mg/l
Carnauba Wax	8015-86-9		Data not available or insufficient for classification			N/A
Siloxanes And Silicones, Di-Me	63148-62-9		Data not available or insufficient for classification			N/A
Montan Wax	68476-03-9	Anaerobic sludge	Experimental	24 hours	NOEC	2,500 mg/l
Montan Wax	68476-03-9	Zebra Fish	Experimental	96 hours	LC50	>500 mg/l
Silicone Resin	Trade Secret		Data not available or insufficient for classification			N/A

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Estimated Biodegradation	28 days	BOD	31.3 % BOD/ThBOD	OECD 301F - Manometric respirometry
Distillates (petroleum), hydrotreated light	64742-47-8	Estimated Biodegradation	28 days	BOD	22 % BOD/ThBOD	OECD 301F - Manometric respirometry
Carnauba Wax	8015-86-9	Estimated Biodegradation	28 days	CO2 evolution	96 % weight	OECD 301B - Modified sturm or CO2
Siloxanes And Silicones, Di-Me	63148-62-9	Data not available-insufficient			N/A	
Montan Wax	68476-03-9	Data not available-insufficient			N/A	
Silicone Resin	Trade Secret	Data not available-insufficient			N/A	

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carnauba Wax	8015-86-9	Estimated Bioconcentration		Bioaccumulation factor	7.4	Estimated: Bioconcentration factor
Siloxanes And Silicones, Di-Me	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Montan Wax	68476-03-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicone Resin	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Air Transport (IATA)Regulations

UN No UN1325
Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S. (HYDROTREATED HEAVY NAPHTHA (PETROLEUM), HYDROTREATED LIGHT PETROLEUM DISTILLATES)
Hazard Classs/Division 4.1
Subsidiary Risk Not applicable
Packing Group: II

Marine Transport (IMDG)

UN No UN1325
Proper Shipping Name FLAMMABLE SOLID, ORGANIC, N.O.S. (HYDROTREATED HEAVY NAPHTHA (PETROLEUM), HYDROTREATED LIGHT PETROLEUM DISTILLATES)
Hazard Classs/Division 4.1
Subsidiary Risk Not applicable
Packing Group: II
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
The product is classified as Flammable.

SECTION 16: Other information

NFPA Hazard Classification
Health: 1 **Flammability:** 2 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M India SDSs are available at http://solutions.3mindia.co.in