Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier
3M™ Perfect-It™ Clean & Shine, 06084, 06088

Product Identification Numbers
60-4550-3484-7 XS-0414-1811-1

1.2. Recommended use and restrictions on use

Recommended use
Automotive, Automotive surface shine restoration

1.3. Supplier's details
ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
Telephone: 03-7884 2888
E Mail: 3mmyehsr@mmm.com
Website: www.3M.com.my

1.4. Emergency telephone number
+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Not classified as hazardous according to Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

2.3. Other hazards
None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	70 - 97
ISOPROPYL ALCOHOL	67-63-0	1 - 5
CARNAUBA WAX	8015-86-9	0.18 (typically 0.18)
Amines, Hydrogenated Tallow Alkyl, Ethoxylated, Acetates (Salts)	68201-30-9	<= 0.105
Fragrance Ingredient	Trade Secret	0.01 0.015
DIETHYL PHTHALATE	84-66-2	0.0005 0.0025 (typically 0.0012245)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

Eye Contact:
Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

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

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. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
Keep container tightly closed. Protect from sunlight. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
ISOPROPYL ALCOHOL	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin
ISOPROPYL ALCOHOL	67-63-0	Malaysia OELs	TWA(8 hours):983 mg/m3(400 ppm)	
DIETHYL PHTHALATE	84-66-2	ACGIH	TWA:5 mg/m3	A4: Not class. as human carcin
DIETHYL PHTHALATE	84-66-2	Malaysia OELs	TWA(8 hours):5 mg/m3	
Fragrance Ingredient	Trade Secret	ACGIH	TWA:50 ppm;STEL:100 ppm	
Fragrance Ingredient	Trade Secret	Malaysia OELs	TWA(8 hours):532 mg/m3(100 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists
CMRG : Chemical Manufacturer's Recommended Guidelines
Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

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.
Gloves made from the following material(s) are recommended: Nitrile Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Off-White
Odor	Fruity Odor
Odor threshold	*No Data Available*
pH	7 - 8.5
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	100 ºC
Flash Point	> 100 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*No Data Available*
Vapor Density	*No Data Available*
Density	1 g/ml
Relative Density	1 [*Ref Std:*WATER=1]
Water solubility	Appreciable
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	1 - 20 mPa-s
Molecular weight	*No Data Available*
Volatile Organic Compounds	2.5 % weight [*Test Method:*calculated per CARB title 2]
Volatile Organic Compounds	29 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	99.8 % weight

VOC Less H2O & Exempt Solvents 963 g/l [*Test Method:*calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	Condition
Carbon monoxide	At Elevated Temperatures
Carbon dioxide	At Elevated Temperatures

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 labeling, 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:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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
ISOPROPYL ALCOHOL	Dermal	Rabbit	LD50 12,870 mg/kg
ISOPROPYL ALCOHOL	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
ISOPROPYL ALCOHOL	Ingestion	Rat	LD50 4,710 mg/kg
CARNAUBA WAX	Dermal		LD50 estimated to be > 5,000 mg/kg
CARNAUBA WAX	Ingestion	Rat	LD50 > 8,800 mg/kg
Fragrance Ingredient	Dermal	Rabbit	LD50 8,200 mg/kg
Fragrance Ingredient	Inhalation-Vapor (4 hours)	Rat	LC50 > 24.1 mg/l
Fragrance Ingredient	Ingestion	Rat	LD50 5,000 mg/kg
DIETHYL PHTHALATE	Dermal	Rat	LD50 11,200 mg/kg
DIETHYL PHTHALATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.9 mg/l
DIETHYL PHTHALATE	Ingestion	Rat	LD50 8,200 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ISOPROPYL ALCOHOL	Multiple animal species	No significant irritation
CARNAUBA WAX	Professional judgement	No significant irritation
Fragrance Ingredient	Rabbit	Mild irritant
DIETHYL PHTHALATE	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
ISOPROPYL ALCOHOL	Rabbit	Severe irritant
CARNAUBA WAX	Professional judgement	No significant irritation
Fragrance Ingredient	Rabbit	Moderate irritant
DIETHYL PHTHALATE	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
ISOPROPYL ALCOHOL	Guinea pig	Not classified
Fragrance Ingredient	Human	Not classified
DIETHYL PHTHALATE	Human and animal	Not classified

Photosensitization

Name	Species	Value

Fragrance Ingredient	Human	Not sensitizing

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

Germ Cell Mutagenicity

Name	Route	Value
ISOPROPYL ALCOHOL	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In vivo	Not mutagenic
Fragrance Ingredient	In Vitro	Not mutagenic
DIETHYL PHTHALATE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
ISOPROPYL ALCOHOL	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
DIETHYL PHTHALATE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ISOPROPYL ALCOHOL	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
ISOPROPYL ALCOHOL	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
Fragrance Ingredient	Inhalation	Not classified for development	Rat	NOAEL 2.7 mg/l	during organogenesis
DIETHYL PHTHALATE	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1,625 mg/kg/day	2 generation
DIETHYL PHTHALATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,625 mg/kg	2 generation
DIETHYL PHTHALATE	Ingestion	Not classified for development	Rat	NOAEL 1,900 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOPROPYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
ISOPROPYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Fragrance Ingredient	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Fragrance Ingredient	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Fragrance Ingredient	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOPROPYL ALCOHOL	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
ISOPROPYL ALCOHOL	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
ISOPROPYL ALCOHOL	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
DIETHYL PHTHALATE	Dermal	skin	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
DIETHYL PHTHALATE	Dermal	liver | kidney and/or bladder	Not classified	Rat	NOAEL 855 mg/kg	2 years
DIETHYL PHTHALATE	Dermal	heart	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
DIETHYL PHTHALATE	Dermal	gastrointestinal tract | nervous system | respiratory system	Not classified	Rat	NOAEL 855 mg/kg	2 years
DIETHYL PHTHALATE	Ingestion	heart	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
DIETHYL PHTHALATE	Ingestion	nervous system | kidney and/or bladder	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
DIETHYL PHTHALATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 3,160 mg/kg	6 weeks
DIETHYL PHTHALATE	Ingestion	liver	Not classified	Rat	NOAEL 1,753 mg/kg	3 weeks
DIETHYL PHTHALATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
DIETHYL PHTHALATE	Ingestion	muscles | respiratory system	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks

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

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 labeling, 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 #	Organism	Type	Exposure	Test Endpoint	Test Result
ISOPROPYL	67-63-0	Water flea	Experimental	48 hours	Effect	>1,000 mg/l

ALCOHOL					Concentration 50%	
ISOPROPYL ALCOHOL	67-63-0	Crustacea	Experimental	24 hours	Lethal Concentration 50%	>10,000 mg/l
ISOPROPYL ALCOHOL	67-63-0	Ricefish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
ISOPROPYL ALCOHOL	67-63-0	Green Algae	Experimental	72 hours	Effect Concentration 50%	>1,000 mg/l
ISOPROPYL ALCOHOL	67-63-0	Water flea	Experimental	21 days	No obs Effect Conc	100 mg/l
ISOPROPYL ALCOHOL	67-63-0	Green algae	Experimental	72 hours	No obs Effect Conc	1,000 mg/l
CARNAUBA WAX	8015-86-9		Data not available or insufficient for classification			
Amines, Hydrogenated Tallow Alkyl, Ethoxylated, Acetates (Salts)	68201-30-9		Data not available or insufficient for classification			
Fragrance Ingredient	Trade Secret	Goldfish	Estimated	96 hours	Lethal Concentration 50%	10 mg/l
DIETHYL PHTHALATE	84-66-2	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	12 mg/l
DIETHYL PHTHALATE	84-66-2	Algae other	Experimental	96 hours	Effect Concentration 50%	3 mg/l
DIETHYL PHTHALATE	84-66-2	Water flea	Experimental	48 hours	Lethal Concentration 50%	52 mg/l
DIETHYL PHTHALATE	84-66-2	Algae other	Experimental	72 hours	Effect Concentration 50%	6.24 mg/l
DIETHYL PHTHALATE	84-66-2	Mysid Shrimp	Experimental	48 hours	Lethal Concentration 50%	20.2 mg/l
DIETHYL PHTHALATE	84-66-2	Algae other	Experimental	72 hours	Effect Concentration 10%	1.02 mg/l
DIETHYL PHTHALATE	84-66-2	Water flea	Experimental	21 days	No obs Effect Conc	3.8 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
ISOPROPYL ALCOHOL	67-63-0	Experimental Biodegradation	14 days	Biological Oxygen Demand	86 % BOD/ThBOD	OECD 301C - MITI (I)

CARNAUBA WAX	8015-86-9	Estimated Biodegradation	28 days	Carbon dioxide evolution	96 % weight	OECD 301B - Mod. Sturm or CO2
Amines, Hydrogenated Tallow Alkyl, Ethoxylated, Acetates (Salts)	68201-30-9	Estimated Biodegradation	28 days	Dissolv. Organic Carbon Deplet	<70 % weight	OECD 301E - Modified OECD Scre
Fragrance Ingredient	Trade Secret	Estimated Photolysis		Photolytic half-life (in air)	5.17 days (t 1/2)	Other methods
Fragrance Ingredient	Trade Secret	Estimated Biodegradation	20 days	Biological Oxygen Demand	72.3 % weight	Other methods
DIETHYL PHTHALATE	84-66-2	Experimental Biodegradation	28 days	Biological Oxygen Demand	88 % BOD/ThBOD	OECD 301C - MITI (I)

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
ISOPROPYL ALCOHOL	67-63-0	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.05	Other methods
CARNAUBA WAX	8015-86-9	Estimated Bioconcentration		Bioaccumulation Factor	7.4	Est: Bioconcentration factor
Fragrance Ingredient	Trade Secret	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.18	Other methods
DIETHYL PHTHALATE	84-66-2	Experimental BCF - Bluegill	21 days	Bioaccumulation Factor	117	Other methods

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

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.
Proper Shipping Name: None assigned.
Technical Name: None assigned.

Hazard Class/Division: None assigned.
Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Air Transport (IATA)

UN Number: None assigned.
Proper Shipping Name: None assigned.
Technical Name: None assigned.
Hazard Class/Division: None assigned.
Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. 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.

SECTION 16: Other 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 Malaysia SDSs are available at www.3M.com.my