



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 BRAND 504 RESPIRATOR CLEANING WIPE

Product Identification Numbers

70-0703-1713-9 70-0716-5104-9

1.2. Recommended use and restrictions on use

Recommended use

Cleaning respirators.

For Industrial or Consumer Use

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

Acute Aquatic Toxicity: Category 1.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Environment |

Pictograms**Hazard Statements:**

H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements**Prevention:**

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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	50 - 70
CELLULOSE	9004-34-6	30 - 50
SURFACTANTS	68439-46-3	0.1 - 1
CLEANING AGENTS	68424-85-1	0.1 - 0.95

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:

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

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

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

Carbon monoxide
Carbon dioxide

Condition

During Combustion
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

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

Collect as much of the spilled material as possible. 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

Avoid eye contact. For industrial/occupational use only. Not for consumer sale or use. 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

No special storage requirements.

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
CELLULOSE	9004-34-6	ACGIH	TWA:10 mg/m3	
CELLULOSE	9004-34-6	Malaysia OELs	TWA(8 hours):10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

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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

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid moist
Specific Physical Form:	Non-Woven Material
Color	White
Odor	Odorless
Odor threshold	<i>No Data Available</i>
pH	5.75 - 6.75 [<i>Details:CONDITIONS: Excluding towelette</i>]
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	Approximately 100 °C [<i>Details:CONDITIONS: Excluding towelette</i>]
Flash Point	No flash point
Evaporation rate	0.33 [<i>Ref Std:BUOAC=1</i>] [<i>Details:Excluding Towlette</i>]
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	Approximately 2,338.5 Pa [<i>@ 20 °C</i>] [<i>Details:Excluding Towlette</i>]
Vapor Density and/or Relative Vapor Density	<i>No Data Available</i>
Density	1 g/ml [<i>Details:Excluding Towlette</i>]
Relative Density	Approximately 1 [<i>Ref Std:WATER=1</i>] [<i>Details:CONDITIONS: Excluding towelette</i>]
Water solubility	Complete
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity/Kinematic Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	Approximately 100 % [<i>Details:CONDITIONS: Excluding towlette</i>]
VOC Less H2O & Exempt Solvents	<i>No Data Available</i>

Molecular weight

No Data Available

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**

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 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:

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

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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
CELLULOSE	Dermal	Rabbit	LD50 > 2,000 mg/kg
CELLULOSE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
CELLULOSE	Ingestion	Rat	LD50 > 5,000 mg/kg
SURFACTANTS	Dermal	similar compounds	LD50 > 2,000 mg/kg
SURFACTANTS	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
SURFACTANTS	Ingestion	similar compounds	LD50 3,488 mg/kg
CLEANING AGENTS	Dermal	Rabbit	LD50 3,413 mg/kg
CLEANING AGENTS	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.25 mg/l
CLEANING AGENTS	Ingestion	Rat	LD50 398 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
CELLULOSE	Not available	No significant irritation
SURFACTANTS	similar compounds	Minimal irritation
CLEANING AGENTS	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
CELLULOSE	Not available	No significant irritation
SURFACTANTS	Professional judgement	Moderate irritant
CLEANING AGENTS	Rabbit	Corrosive

Sensitization:**Skin Sensitization**

Name	Species	Value
SURFACTANTS	Guinea pig	Not classified
CLEANING AGENTS	Guinea pig	Not classified

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
SURFACTANTS	In Vitro	Not mutagenic
CLEANING AGENTS	In Vitro	Not mutagenic
CLEANING AGENTS	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
CLEANING AGENTS	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
SURFACTANTS	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
SURFACTANTS	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
SURFACTANTS	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
CLEANING AGENTS	Ingestion	Not classified for female reproduction	Rat	NOAEL 48 mg/kg/day	2 generation
CLEANING AGENTS	Ingestion	Not classified for male reproduction	Rat	NOAEL 30.5 mg/kg/day	2 generation
CLEANING AGENTS	Ingestion	Not classified for development	Rat	NOAEL 48 mg/kg/day	2 generation

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SURFACTANTS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
CLEANING AGENTS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SURFACTANTS	Dermal	kidney and/or bladder heart hematopoietic system liver nervous system respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
CLEANING AGENTS	Ingestion	heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days

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:**

GHS Acute 1: Very toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
CELLULOSE	9004-34-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
SURFACTANTS	68439-46-3	Rainbow Trout	Analogous Compound	96 hours	LC50	5 mg/l
SURFACTANTS	68439-46-3	Green algae	Experimental	72 hours	EbC50	1.4 mg/l
SURFACTANTS	68439-46-3	Water flea	Experimental	48 hours	EC50	2.5 mg/l
SURFACTANTS	68439-46-3	Green algae	Analogous Compound	72 hours	ErC10	1.05 mg/l
SURFACTANTS	68439-46-3	Water flea	Analogous Compound	21 days	NOEC	0.107 mg/l
SURFACTANTS	68439-46-3	Activated sludge	Analogous Compound	3 hours	EC50	140 mg/l
SURFACTANTS	68439-46-3	Wheat	Analogous Compound	19 days	EC50	>100 mg/kg (Dry Weight)
CLEANING AGENTS	68424-85-1	Diatom	Experimental	96 hours	ErC50	0.089 mg/l
CLEANING AGENTS	68424-85-1	Green algae	Experimental	72 hours	ErC50	0.049 mg/l
CLEANING AGENTS	68424-85-1	Mysid Shrimp	Experimental	96 hours	LC50	0.092 mg/l
CLEANING AGENTS	68424-85-1	Rainbow Trout	Experimental	96 hours	LC50	0.064 mg/l
CLEANING AGENTS	68424-85-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.86 mg/l
CLEANING AGENTS	68424-85-1	Water flea	Experimental	48 hours	EC50	0.0058 mg/l
CLEANING AGENTS	68424-85-1	Diatom	Experimental	96 hours	NOEC	0.035 mg/l
CLEANING AGENTS	68424-85-1	Fathead Minnow	Experimental	28 days	NOEC	0.0322 mg/l
CLEANING AGENTS	68424-85-1	Green algae	Experimental	72 hours	ErC10	0.009 mg/l
CLEANING AGENTS	68424-85-1	Water flea	Experimental	21 days	NOEC	0.00415 mg/l
CLEANING	68424-85-1	Activated sludge	Experimental	3 hours	EC50	7.75 mg/l

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AGENTS						
CLEANING AGENTS	68424-85-1	Mustard	Experimental	16 days	EC50	277 mg/kg (Dry Weight)
CLEANING AGENTS	68424-85-1	Redworm	Experimental	14 days	LC50	7,070 mg/kg (Dry Weight)
CLEANING AGENTS	68424-85-1	Redworm	Experimental	56 days	NOEC	125 mg/kg (Dry Weight)
CLEANING AGENTS	68424-85-1	Soil microbes	Experimental	28 days	EC50	130 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
CELLULOSE	9004-34-6	Data not available or insufficient	N/A	N/A	N/A	N/A
SURFACTANTS	68439-46-3	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	72 %CO ₂ evolution/THCO ₂ evolution	ISO 14593 Inorg C Headspace
CLEANING AGENTS	68424-85-1	Experimental Biodegradation	28 days	Carbon dioxide evolution	95.5 %CO ₂ evolution/THCO ₂ evolution	OECD 301B - Mod. Sturm or CO ₂
CLEANING AGENTS	68424-85-1	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	EC C.7 Hydrolysis at pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
CELLULOSE	9004-34-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
SURFACTANTS	68439-46-3	Modeled Bioconcentration		Bioaccumulation Factor	31	Catalogic™
SURFACTANTS	68439-46-3	Analogous Compound Bioconcentration		Log of Octanol/H ₂ O part. coeff	2.72	OECD 123 log Kow slow stir
CLEANING AGENTS	68424-85-1	Experimental BCF - Fish	35 days	Bioaccumulation Factor	79	
CLEANING AGENTS	68424-85-1	Estimated Bioconcentration		Log of Octanol/H ₂ O part. coeff	2.75	

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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

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:

Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

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:

Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

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. 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 in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to

convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my