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Material Safety Data Sheet

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1 Chemical Product and Company Identification

Tradename:

3M(TM) KEYBOARD CLEANER #674

Product ID:

FM-5100-1645-0 56-0536-7086-7 70-0706-7053-7 70-0709-9365-7
 70-0710-9750-8 70-0712-0791-7

Intended Use of Product:

Keyboard Cleaner

Division:

OFFICE SUPPLIES DIVISION

2 Hazards Identification

Critical Hazards:

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

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Very toxic by inhalation.

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

See Sections 7 and 11 for further information.

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3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
WATER	7732-18-5	90 - 95
2-BUTOXYETHANOL	111-76-2	1 - 5
BENZYL ALCOHOL	100-51-6	1 - 3
TRISODIUM PHOSPHATE	7601-54-9	1 - 2

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:

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

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Get immediate medical attention.

5 Fire Fighting Measures

Flash point: Not applicable

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: Not applicable

Suitable Extinguishing Media:

Non-combustible. Choose material suitable for surrounding fire.

Exposure Hazards during Fire:

No unusual fire or explosion hazards are anticipated.

Combustion Products from Fire:

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health 2

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NFPA: Reactivity 0
NFPA: Unusual Reaction Hazard none

6 Accidental Release Measures

Personal Precautions:

No data available.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. 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. Collect as much of the spilled material as possible. Clean up residue with water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from oxidizing agents.

Ventilation:

Keep container in well-ventilated area.

Use Instructions:

Avoid contact with oxidizing agents.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.

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The following glove material(s) are recommended:

butyl rubber;

Skin Protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapor cartridges.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Keep out of the reach of children.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Provide appropriate local exhaust ventilation at transfer points.

Provide appropriate local exhaust ventilation on open containers.

Use in a well-ventilated area.

If exhaust ventilation is not available, use appropriate respiratory protection.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

WATER (7732-18-5)

LD50 (rat, oral)	> 90 ml/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
No data available.	

2-BUTOXYETHANOL (111-76-2)

LD50 (rat, oral)	470 mg/kg
LD50 (dermal, rabbit)	□ 99 mg/kg
LC50 (rat, inhalation/4 hours)	450 ppm
Exposure Limits	
ACGIH: TWA 20 ppm (Table A3) AIHA TWA: 20 ppm	

BENZYL ALCOHOL (100-51-6)

Specific Ingredient Data

2000 mg/kg LD50 (rabbit, dermal):

LD50 (rat, oral)	1230 mg/kg
LC50 (rat, inhalation/4 hours)	> 500 mg/m3

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Exposure Limits

AIHA: TWA 44.2 mg/m3 AIHA: TWA 10 ppm

TRISODIUM PHOSPHATE (7601-54-9)

LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	

AIHA: TWA 5 mg/m3 Limit Info: 15 MINUTES TWA

9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; aqueous; solution; slightly sweet odour;
Odour Threshold:	No data available.
pH:	7.5
Boiling point/boiling range:	98.9 - 107.2 C
Melting point/melting range:	Not applicable
Vapour pressure:	□ 16 mmHg at 20 C
Water Solubility:	Complete
Specific gravity:	□ 1 Water=1
Vapour density:	Not Available
Volatile organic compounds:	No data available.
Evaporation rate:	<= 1 BuOAc=1
Viscosity:	1.1 centipoise
Percent Volatile:	No data available.

10 Stability and Reactivity

Conditions to Avoid:
None known.

Materials to Avoid:
Strong oxidizing agents;

Hazardous Decomposition:
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;

Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

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

Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.
May be absorbed through skin and cause target organ effects.

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Effects from Inhalation:
Very toxic by inhalation.
May be absorbed following inhalation and cause target organ effects.
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:
May be absorbed following ingestion and cause target organ effects.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

13 Disposal Considerations

Product as Sold:

Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or

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authorities before disposal.

14 Transport Information
-----Transportation of Dangerous Goods

TDG Classification:

Non-Regulated Material

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper 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 original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification: Exempt (Consumer Product)

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- DSL - Domestic Substances List (Canada)
- TSCA - Toxic Substances Control Act (USA)
- AICS - Australian Inventory of Chemical Substances

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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

- Update Tradename
- Division name change.
- Section 3 - Hazards Identification - Critical Hazards;
- Section 4 - First Aid Measures;
- Section 5 - Fire Fighting Measures
- Section 6 - Accidental Release Measures;
- Section 8 - Exposure Controls/Personal Protection;
- Section 9 - Physical and Chemical Properties;
- Section 10 - Stability and Reactivity;
- Section 11 - Toxicological Information;

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