Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ 3-In-1 Floor Cleaner Ready-to-Use (Product No. 24, 3M™ Chemical Management Systems)

Product Identification Numbers
LN-DCCX-24RT-U

1.2. Recommended use and restrictions on use

Recommended use
Versatile, low-foaming cleaner can be used in automatic scrubbers or in mop-on applications., This is a use dilution of a product that meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on: VOCs and human & environmental toxicity. GreenSeal.org., Hard Surface Cleaner

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Commercial Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	99 - 100 Trade Secret *
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	78330-21-9	0.1 - 0.5 Trade Secret *
Diethylene Glycol Mono(2-Ethylhexyl) Ether	1559-36-0	< 0.1 Trade Secret *
Ethylhexyloxyethanol	1559-35-9	< 0.1 Trade Secret *
Fragrance Compound	Trade Secret*	< 0.01 Trade Secret *
Acid Blue 9	3844-45-9	< 0.001 Trade Secret *
Geraniol	106-24-1	< 0.001 Trade Secret *

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. 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:
Do not induce vomiting. 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
Material will not burn. Non-combustible. Use a fire fighting agent suitable for surrounding fire. Use a fire fighting agent suitable for the surrounding fire.

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

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

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. Observe precautions from other sections. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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 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
For industrial/occupational use only. Not for consumer sale or use. NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a chemical dispensing system. Keep out of reach of children. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from strong bases. Store away from oxidizing 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 SDS.

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

Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

Skin/hand protection
Under normal use conditions, skin exposure is not expected to be significant enough to require skin protection.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Blue

Specific Physical Form:	Liquid
Odor	Mild Citrus
Odor threshold	*No Data Available*
pH	8 - 9
Melting point	*Not Applicable*
Boiling Point	> 210 ºF
Flash Point	No flash point
Evaporation rate	Approximately 1 [*Ref Std:*WATER=1]
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	Approximately 1 g/ml [*Ref Std:*WATER=1]
Specific Gravity	0.96 - 0.97 [*Ref Std:*WATER=1]
Solubility in Water	Complete
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*Not Applicable*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Viscosity	< 27 Saybolt Universal Second
Average particle size	*Not Applicable*
Bulk density	*No Data Available*
Molecular weight	*Not Applicable*
Volatile Organic Compounds	< 0.3 % [*Test Method:*calculated per CARB title 2]
Percent volatile	> 95 %
VOC Less H2O & Exempt Solvents	< 260 g/l [*Test Method:*calculated per CARB title 2]

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 polymerization will not occur.

10.4. Conditions to avoid
Not determined

10.5. Incompatible materials
Strong bases
Strong oxidizing agents

10.6. Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

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:
No known health effects.

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

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
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Dermal	Rat	LD50 > 2,000 mg/kg
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Ingestion	Rat	LD50 500-2000 mg/kg
Ethylhexyloxyethanol	Dermal	Rabbit	LD50 2,120 mg/kg
Ethylhexyloxyethanol	Ingestion	Rat	LD50 4,674 mg/kg
Diethylene Glycol Mono(2-Ethylhexyl) Ether	Dermal	Rabbit	LD50 2,310 mg/kg
Diethylene Glycol Mono(2-Ethylhexyl) Ether	Ingestion	Rat	LD50 6,900 mg/kg
Geraniol	Dermal	Rabbit	LD50 > 5,000 mg/kg
Geraniol	Ingestion	Rat	LD50 3,600 mg/kg
Acid Blue 9	Ingestion	Rat	LD50 > 2,000 mg/kg
Acid Blue 9	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Rabbit	Mild irritant
Ethylhexyloxyethanol	Rabbit	Irritant
Diethylene Glycol Mono(2-Ethylhexyl) Ether	Rabbit	Irritant
Geraniol	Rabbit	Irritant
Acid Blue 9	Human	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Rabbit	Corrosive
Ethylhexyloxyethanol	Rabbit	Severe irritant
Diethylene Glycol Mono(2-Ethylhexyl) Ether	Rabbit	Severe irritant
Geraniol	Rabbit	Corrosive

Acid Blue 9	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Human	Not classified
Ethylhexyloxyethanol	Guinea pig	Not classified
Geraniol	Human and animal	Sensitizing
Acid Blue 9	Mouse	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
Ethylhexyloxyethanol	In Vitro	Not mutagenic
Geraniol	In Vitro	Not mutagenic
Acid Blue 9	In Vitro	Not mutagenic
Acid Blue 9	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Acid Blue 9	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Ethylhexyloxyethanol	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
Ethylhexyloxyethanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	5 weeks
Ethylhexyloxyethanol	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
Geraniol	Dermal	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
Geraniol	Ingestion	Not classified for female reproduction	Rat	NOAEL 800 mg/kg/day	2 generation
Geraniol	Dermal	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	28 days
Geraniol	Ingestion	Not classified for male reproduction	Rat	NOAEL 800 mg/kg/day	2 generation
Geraniol	Dermal	Not classified for development	Rat	NOAEL 300 mg/kg/day	premating into lactation
Geraniol	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
Acid Blue 9	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	3 generation
Acid Blue 9	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	3 generation
Acid Blue 9	Ingestion	Not classified for development	Rat	NOAEL 2,000 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
Alcohols, C11-14-Iso-, C13-rich, Ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Ethylhexyloxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Diethylene Glycol Mono(2-Ethylhexyl) Ether	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Geraniol	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
Ethylhexyloxyethanol	Ingestion	liver | hematopoietic system | nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	5 weeks
Geraniol	Ingestion	endocrine system | liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Geraniol	Ingestion	heart | bone, teeth, nails, and/or hair | hematopoietic system | muscles | kidney and/or bladder	Not classified	Rat	NOAEL 550 mg/kg/day	112 days
Acid Blue 9	Ingestion	heart | skin | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | muscles | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months

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

Ecotoxicological information

A 3M Product Environmental Data Sheet (PED) is available.

Chemical fate information

A 3M Product Environmental Data Sheet (PED) is available.

SECTION 13: Disposal considerations

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

Dispose of waste product in a permitted industrial waste 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.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not applicable

Health Hazards
Not applicable

15.2. State Regulations

15.3. Chemical Inventories
The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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 chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

15.4. International Regulations

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 0 **Flammability:** 0 **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.

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