Safety Data Sheet

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Document Group:	28-9303-0	**Version Number:**	5.04
Issue Date:	11/04/25	**Supersedes Date:**	05/16/25

SECTION 1: Identification

1.1. Product identifier
3M™ Neutral Cleaner LO Concentrate (Product No. 33, Twist 'n Fill™ System)

Product Identification Numbers

ID Number	UPC	ID Number	UPC
61-0000-6356-2		70-0715-9215-1	00-48011-59169-3
70-0716-8351-3	00-48011-59169-3		

7010302091, 7010364134

1.2. Recommended use and restrictions on use

Recommended use
No-rinse low-odor cleaner can be used in automatic scrubber or with mop to clean washable hard floors. Will not dull or damage floor finishes. No Fragrance Added., This product 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 Branding and Transportation 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

7% of the mixture consists of ingredients of unknown acute oral toxicity.
7% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	80 - 90
Alcohols, C12-14, Ethoxylated Propoxylated	68439-51-0	5 - 7
Ethoxylated C9-11 Alcohols	68439-46-3	3 - 7 Trade Secret *
Surfactant (NJTSRN 04499600-6632)	Trade Secret*	0.1 - 1 Trade Secret *
1-Octyl-2-Pyrolidinone	2687-94-7	0.1 - 0.5
1-Undecanol	112-42-5	0.1 - 0.5
C.I. Food Red 17	25956-17-6	< 0.05
Sodium Lauryl Sulfate	151-21-3	< 0.05
Dimethicone	63148-62-9	< 0.016
Sodium Carboxymethyl Cellulose	9004-32-4	< 0.0080

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

Skin Contact:
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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.

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. 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
NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, special ventilation is not required. 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

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser, as directed, eye contact with the concentrate is not expected to occur. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection.

Skin/hand protection
NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, skin contact with the concentrate is not expected to occur.
If product is not used with a chemical dispensing system or if there is an accidental release:

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.

Respiratory protection

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, respiratory protection is not required.
If product is not used with a chemical dispensing system or if there is an accidental release:

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
Specific Physical Form:	Liquid
Color	Peach
Odor	Slight Soapy
Odor threshold	*No Data Available*
pH	7 - 8
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	> 93.3 ºC
Flash Point	> 93.3 ºC [*Test Method:*Closed Cup] [*Details:*Will not sustain combustion (ASTM D-4206).]
Evaporation rate	Approximately 1 [*Ref Std:*WATER=1]
Flammability	Not Applicable

Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	< 186,158.4 Pa [@ 55 ºC]
Relative Vapor Density	*No Data Available*
Relative Density	0.995 - 1.011 [*Ref Std:*WATER=1]
Water solubility	Complete
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	14 mm2/sec
Volatile Organic Compounds	< 1 % weight [*Test Method:*calculated per CARB title 2]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	< 50 g/l [*Test Method:*calculated per CARB title 2]

Particle Characteristics	*Not Applicable*

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
Heat
Sparks and/or flames

10.5. Incompatible materials
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:
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:
Contact with the eyes during product use is not expected to result in significant irritation.

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Ethoxylated C9-11 Alcohols	Dermal	similar compounds	LD50 > 2,000 mg/kg
Ethoxylated C9-11 Alcohols	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
Ethoxylated C9-11 Alcohols	Ingestion	similar compounds	LD50 3,488 mg/kg
Surfactant (NJTSRN 04499600-6632)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Surfactant (NJTSRN 04499600-6632)	Ingestion	Rat	LD50 > 700 mg/kg
1-Octyl-2-Pyrolidinone	Inhalation-Vapor	Professional judgement	LC50 estimated to be > 50 mg/l
1-Octyl-2-Pyrolidinone	Dermal	Rat	LD50 > 4,000 mg/kg
1-Octyl-2-Pyrolidinone	Ingestion	Rat	LD50 2,050 mg/kg
1-Undecanol	Dermal	Rabbit	LD50 > 3,160 mg/kg
1-Undecanol	Ingestion	Rat	LD50 3,000 mg/kg
Sodium Lauryl Sulfate	Ingestion	Rat	LD50 911 mg/kg
Sodium Lauryl Sulfate	Dermal	similar compounds	LD50 > 2,000 mg/kg
C.I. Food Red 17	Dermal	Rabbit	LD50 > 10,000 mg/kg
C.I. Food Red 17	Ingestion	Rat	LD50 > 10,000 mg/kg
Dimethicone	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
Dimethicone	Ingestion	Rat	LD50 > 5,000 mg/kg
Sodium Carboxymethyl Cellulose	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sodium Carboxymethyl Cellulose	Ingestion	Rat	LD50 > 27,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Ethoxylated C9-11 Alcohols	similar compounds	Minimal irritation
Surfactant (NJTSRN 04499600-6632)	similar	Irritant

	health hazards	
1-Octyl-2-Pyrolidinone	Rabbit	Corrosive
1-Undecanol	Rabbit	Irritant
Sodium Lauryl Sulfate	Rabbit	Irritant
C.I. Food Red 17	Human and animal	No significant irritation
Dimethicone	Human and animal	No significant irritation
Sodium Carboxymethyl Cellulose	Human	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Ethoxylated C9-11 Alcohols	Professional judgement	Moderate irritant
Surfactant (NJTSRN 04499600-6632)	Professional judgement	Corrosive
1-Octyl-2-Pyrolidinone	Rabbit	Corrosive
1-Undecanol	Rabbit	Severe irritant
Sodium Lauryl Sulfate	Rabbit	Corrosive
Dimethicone	Rabbit	No significant irritation
Sodium Carboxymethyl Cellulose	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Ethoxylated C9-11 Alcohols	Guinea pig	Not classified
1-Octyl-2-Pyrolidinone	Human and animal	Not classified
1-Undecanol	Human and animal	Not classified
Sodium Lauryl Sulfate	similar compounds	Not classified
C.I. Food Red 17	Human	Not classified
Dimethicone	Human and animal	Not classified
Sodium Carboxymethyl Cellulose	Human	Not classified

Photosensitization

Name	Species	Value
C.I. Food Red 17	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
Ethoxylated C9-11 Alcohols	In Vitro	Not mutagenic
1-Octyl-2-Pyrolidinone	In Vitro	Not mutagenic
1-Octyl-2-Pyrolidinone	In vivo	Not mutagenic

1-Undecanol	In vivo	Not mutagenic
1-Undecanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium Lauryl Sulfate	In Vitro	Not mutagenic
Sodium Lauryl Sulfate	In vivo	Not mutagenic
C.I. Food Red 17	In Vitro	Not mutagenic
Dimethicone	In Vitro	Not mutagenic
Dimethicone	In vivo	Not mutagenic
Sodium Carboxymethyl Cellulose	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
1-Undecanol	Dermal	Mouse	Not carcinogenic
C.I. Food Red 17	Ingestion	Rat	Not carcinogenic
Dimethicone	Dermal	Mouse	Not carcinogenic
Dimethicone	Ingestion	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Ethoxylated C9-11 Alcohols	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Ethoxylated C9-11 Alcohols	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Ethoxylated C9-11 Alcohols	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
1-Octyl-2-Pyrolidinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
1-Octyl-2-Pyrolidinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
1-Octyl-2-Pyrolidinone	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	1 generation
1-Undecanol	Not Specified	Not classified for development	similar compoun ds	NOAEL Not available	
C.I. Food Red 17	Ingestion	Not classified for female reproduction	Rat	NOAEL 3,600 mg/kg/day	2 generation
C.I. Food Red 17	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,830 mg/kg/day	2 generation
C.I. Food Red 17	Ingestion	Not classified for development	Rat	NOAEL 3,600 mg/kg/day	2 generation
Dimethicone	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesi s
Dimethicone	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesi s
Sodium Carboxymethyl Cellulose	Ingestion	Not classified for female reproduction	Rat	NOAEL 1 g/kg in the diet	3 generation
Sodium Carboxymethyl Cellulose	Ingestion	Not classified for male reproduction	Rat	NOAEL 1 g/kg in the diet	3 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Ethoxylated C9-11 Alcohols	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Surfactant (NJTSRN 04499600-6632)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
1-Octyl-2-Pyrolidinone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
1-Undecanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-Undecanol	Inhalation	central nervous system depression	Not classified	Rat	NOAEL 0.4 mg/l	6 hours
1-Undecanol	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Sodium Lauryl Sulfate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Ethoxylated C9-11 Alcohols	Dermal	kidney and/or bladder | heart | hematopoietic system | liver | nervous system | respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
1-Octyl-2-Pyrolidinone	Ingestion	liver | hematopoietic system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 492 mg/kg/day	90 days
1-Octyl-2-Pyrolidinone	Ingestion	heart | endocrine system | gastrointestinal tract | immune system | nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Sodium Lauryl Sulfate	Ingestion	liver	Not classified	Rat	NOAEL 1,840 mg/kg/day	90 days
C.I. Food Red 17	Dermal	skin	Not classified	Mouse	NOAEL 167 mg/kg/day	20 months
C.I. Food Red 17	Ingestion	endocrine system	Not classified	Mouse	NOAEL 8,350 mg/kg/day	1 generation
C.I. Food Red 17	Ingestion	heart | bone marrow | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 3,600 mg/kg/day	1 generation
Dimethicone	Ingestion	eyes	Not classified	Rat	NOAEL 10% in the diet	90 days
Dimethicone	Ingestion	respiratory system	Not classified	Rat	NOAEL 1% in the diet	90 days
Dimethicone	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10% in the diet	90 days
Dimethicone	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10% in the diet	90 days
Dimethicone	Ingestion	heart | liver | kidney and/or bladder | vascular system	Not classified	Rat	NOAEL 1% in the diet	90 days
Sodium Carboxymethyl Cellulose	Ingestion	blood | kidney and/or bladder	Not classified	Rat	NOAEL 1 g/kg in the	25 months

					diet	

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

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

Chemical fate information

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

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 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 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 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: 1 **Flammability:** 1 **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.

Document Group:	28-9303-0	**Version Number:**	5.04
Issue Date:	11/04/25	**Supersedes Date:**	05/16/25

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