Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
Stainless Steel Cleaner and Protector

Product Identification Numbers

ID Number	UPC	ID Number	UPC
LK-T100-1612-5		61-0000-6420-6	
70-0716-5967-9		70-0716-5972-9	00-51125-85901-6
70-0716-6072-7		70-0716-6073-5	

7100082687, 7010364158, 7100175518

1.2. Recommended use and restrictions on use

Recommended use
For use on stainless steel surfaces. No fragrance added., 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.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 100 Trade Secret *
Ethanol	64-17-5	< 0.4 Trade Secret *
Glycerin	56-81-5	< 0.05 Trade Secret *
3M Protector	Trade Secret*	< 0.05 Trade Secret *
Non-Ionic Surfactant 1	Trade Secret*	< 0.05 Trade Secret *
Surfactant	Trade Secret*	0.0125 - 0.025 Trade Secret *
Non-Ionic Surfactant 2	Trade Secret*	0.001 - 0.02 Trade Secret *
Methylchloroisothiazolinone	26172-55-4	< 0.001 Trade Secret *
Methylisothiazolinone	2682-20-4	< 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:
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:
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. 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.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

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
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. 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.

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 water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

Refer to Section 15 for additional information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

Refer to Section 15 for additional information

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
Glycerin	56-81-5	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	

Ethanol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.
Ethanol	64-17-5	OSHA	TWA:1900 mg/m3(1000 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
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.

Refer to Section 15 for additional information

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	*No Data Available*
pH	9
Melting point	*No Data Available*
Boiling Point	212 ºF
Flash Point	No flash point
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	*No Data Available*
Specific Gravity	1 [*Ref Std:*WATER=1] [*Details:*Approximately]
Solubility in Water	Complete
Solubility- non-water	Complete
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	*No Data Available*

Molecular weight *Not Applicable*

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:
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.

Additional Information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human

consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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
Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation-Vapor (4 hours)	Rat	LC50 124.7 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
Non-Ionic Surfactant 1	Dermal	Rabbit	LD50 > 2,000 mg/kg
Non-Ionic Surfactant 1	Ingestion	Rat	LD50 > 2,000 mg/kg
Surfactant	Dermal	Rabbit	LD50 > 5,000 mg/kg
Surfactant	Ingestion	Rat	LD50 > 2,000 mg/kg
Surfactant	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
Non-Ionic Surfactant 2	Dermal	Rabbit	LD50 > 1,000 mg/kg
Non-Ionic Surfactant 2	Ingestion	Rat	LD50 > 2,500 mg/kg
Methylchloroisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylchloroisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylchloroisothiazolinone	Ingestion	Rat	LD50 40 mg/kg
Methylisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylisothiazolinone	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Ethanol	Rabbit	No significant irritation
Non-Ionic Surfactant 1	Rabbit	Minimal irritation
Surfactant	similar compounds	Mild irritant
Glycerin	Rabbit	No significant irritation
Non-Ionic Surfactant 2	Rabbit	Irritant
Methylchloroisothiazolinone	Rabbit	Corrosive
Methylisothiazolinone	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Ethanol	Rabbit	Severe irritant
Non-Ionic Surfactant 1	Rabbit	Corrosive
Surfactant	similar compounds	Moderate irritant
Glycerin	Rabbit	No significant irritation
Non-Ionic Surfactant 2	Rabbit	Corrosive
Methylchloroisothiazolinone	Rabbit	Corrosive

Methylisothiazolinone	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Ethanol	Human	Not classified
Non-Ionic Surfactant 1	Mouse	Not classified
Surfactant	similar compounds	Not classified
Glycerin	Guinea pig	Not classified
Non-Ionic Surfactant 2	Guinea pig	Not classified
Methylchloroisothiazolinone	Human and animal	Sensitizing
Methylisothiazolinone	Human and animal	Sensitizing

Photosensitization

Name	Species	Value
Methylchloroisothiazolinone	Human and animal	Not sensitizing
Methylisothiazolinone	Human and animal	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
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Non-Ionic Surfactant 1	In Vitro	Not mutagenic
Surfactant	In Vitro	Not mutagenic
Non-Ionic Surfactant 2	In Vitro	Not mutagenic
Non-Ionic Surfactant 2	In vivo	Not mutagenic
Methylchloroisothiazolinone	In vivo	Not mutagenic
Methylchloroisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methylisothiazolinone	In vivo	Not mutagenic
Methylisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Methylchloroisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylchloroisothiazolinone	Ingestion	Rat	Not carcinogenic
Methylisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylisothiazolinone	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Surfactant	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Surfactant	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Surfactant	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
Methylisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 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
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethanol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Non-Ionic Surfactant 1	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Surfactant	Inhalation	respiratory irritation	Not classified	similar health hazards	NOAEL Not available	
Non-Ionic Surfactant 2	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Methylchloroisothiazolinone	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Methylisothiazolinone	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
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system | immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Surfactant	Dermal	kidney and/or bladder | heart | hematopoietic system | liver | nervous system | respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
Glycerin	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Non-Ionic Surfactant 2	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 250 mg/kg/day	90 days
Non-Ionic Surfactant 2	Ingestion	endocrine system | liver | immune system | nervous system | hematopoietic system | eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 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

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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

EPA Hazardous Waste Number (RCRA): Not regulated

Refer to Section 15 for additional information

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

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not applicable

Health Hazards
Not applicable

Additional TSCA Information

Components	CAS No	Additional Information
3M Protector	Trade Secret	Allowed use: Protective coating additive. Required exposure controls when handling the LVE substance: Appropriate local exhaust ventilation; safety glasses with side shields; gloves composed of butyl rubber, fluoroelastomer, nitrile rubber, or polymer laminate as needed based on the results of an exposure assessment; NIOSH-approved full face piece air-purifying respirator suitable for organic vapors and particulates as needed based on the results of an exposure assessment. Required environmental release controls for the LVE substance: Incineration of wastes and cleanup materials or disposal in a permitted landfill.

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. One or more of the components in this material is not listed on the TSCA inventory, but is approved for specific commercial use(s) under a US EPA low volume exemption.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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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