



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)

#### Product Identification Numbers

75-0400-7472-8      75-0400-7473-6

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Hard floor maintenance.

#### 1.3. Supplier's details

**Address:** 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100  
**Telephone:** 080-45543000, contact Product EHS team  
**E Mail:** productehs.in@mmm.com  
**Website:** <http://solutions.3mindia.co.in>

#### 1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

### SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

#### 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 3.

Acute Aquatic Toxicity: Category 3.

#### 2.2. Label elements

##### Signal Word

WARNING!

##### Symbols

Exclamation mark |

**Pictograms**



**HAZARD STATEMENTS:**

H319 Causes serious eye irritation.  
H316 Causes mild skin irritation.  
H402 Harmful to aquatic life.

**PRECAUTIONARY STATEMENTS**

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**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	CAS Nbr	% by Wt
Water	7732-18-5	75 - 100
Polymer	Trade Secret	< 10
Surfactant #1	Trade Secret	< 5
Builder	Trade Secret	0.5 - 1.5
Surfactant #2	Trade Secret	0.5 - 1.5

**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**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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**

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products**

**Substance**

Formaldehyde  
Carbon monoxide.  
Carbon dioxide.

**Condition**

During combustion.  
During combustion.  
During combustion.

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. 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 dykes 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. 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. 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 TWIST 'n FILL. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising 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 Safety Data Sheet.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, 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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, eye contact with the concentrate is not expected to occur. If the product is not used with the Twist 'n Fill system or if there is an accidental release, wear protective eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
Indirect vented goggles.

##### Skin/hand protection

NOTE: When used as directed and diluted and dispensed with a TWIST & FILL (TM) Chemical Dispenser, 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.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

##### Respiratory protection

NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, 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 vapours 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.
Color	Colorless-White

**3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)**

<b>Odor</b>	Mild Odor
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	10.6 - 11.3 [ <i>Details:RTU pH 9.0-9.8</i> ]
<b>Melting point/Freezing point: NA</b>	<i>Not applicable.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	$\geq 93.3$ °C
<b>Flash point</b>	$\geq 93.3$ °C [ <i>Test Method:Closed Cup</i> ]
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	$\leq 2,333.1$ Pa [ <i>@ 20 °C</i> ]
<b>Vapor Density and/or Relative Vapor Density</b>	$\geq 1$
<b>Density</b>	$\geq 0.98$ g/ml
<b>Relative density</b>	$\geq 0.98$ [ <i>Ref Std:WATER=1</i> ]
<b>Water solubility</b>	Soluble
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	204 °C
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity/Kinematic Viscosity</b>	<i>No data available.</i>
<b>Volatile organic compounds (VOC)</b>	$\leq 0.1$ [ <i>Test Method:calculated per CARB</i> ]
<b>Percent volatile</b>	
<b>VOC less H2O &amp; exempt solvents</b>	

**Nanoparticles**

This material does not contain nanoparticles.

**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 polymerisation will not occur.

**10.4 Conditions to avoid**

Heat.

Sparks and/or flames.

**10.5 Incompatible materials**

Strong acids.

Strong bases.

Strong oxidising agents.

**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 labelling, 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

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

#### 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
Surfactant #1	Dermal	Rabbit	LD50 > 2,000 mg/kg
Surfactant #1	Ingestion	Rat	LD50 1,378 mg/kg
Builder	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Builder	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Surfactant #1	Rabbit	Irritant
Builder	Rabbit	Minimal irritation

#### Serious Eye Damage/Irritation

Name	Species	Value
Surfactant #1	Professional judgement	Corrosive
Builder	Rabbit	Corrosive

#### Sensitization:

**3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)****Skin Sensitisation**

Name	Species	Value
Surfactant #1	Guinea pig	Not classified

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Surfactant #1	In Vitro	Not mutagenic

**Carcinogenicity**

For the component/components, either no data are currently available or the data are not sufficient for classification.

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

Name	Route	Value	Species	Test result	Exposure Duration
Surfactant #1	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Surfactant #1	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
Surfactant #1	Dermal	Not classified for male reproduction	Rat	NOAEL 100 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
Surfactant #1	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not available	not available
Builder	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Surfactant #1	Dermal	kidney and/or bladder   hematopoietic system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
Builder	Ingestion	nervous system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	

**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**

**3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)**

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 labelling, 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 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Polymer	Trade Secret		Data not available or insufficient for classification			N/A
Surfactant #1	Trade Secret	Fathead minnow	Experimental	96 hours	LC50	8.5 mg/l
Surfactant #1	Trade Secret	Green algae	Experimental	72 hours	EC50	45 mg/l
Surfactant #1	Trade Secret	Water flea	Experimental	48 hours	EC50	2.686 mg/l
Surfactant #1	Trade Secret	Fathead minnow	Experimental	30 days	NOEC	0.73 mg/l
Surfactant #1	Trade Secret	Green Algae	Experimental	72 hours	NOEC	1.2 mg/l
Builder	Trade Secret	Green algae	Estimated	72 hours	EC50	>345.4 mg/l
Builder	Trade Secret	Water flea	Experimental	48 hours	EC50	>220 mg/l
Surfactant #2	Trade Secret	Green algae	Experimental	72 hours	EC50	31.9 mg/l
Surfactant #2	Trade Secret	Water flea	Experimental	48 hours	EC50	33.6 mg/l
Surfactant #2	Trade Secret	Green algae	Experimental	72 hours	NOEC	6.25 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Polymer	Trade Secret	Data not available- insufficient			N/A	
Surfactant #1	Trade Secret	Experimental Biodegradation	28 days	BOD	88 % weight	OECD 301F - Manometric respirometry
Builder	Trade Secret	Data not available- insufficient			N/A	
Surfactant #2	Trade Secret	Experimental Biodegradation	28 days	BOD	>60 % BOD/ThBOD	OECD 301F - Manometric respirometry

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Polymer	Trade Secret	Data not	N/A	N/A	N/A	N/A



**3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)**

		available or insufficient for classification				
Surfactant #1	Trade Secret	Estimated Bioconcentration		Bioaccumulation factor	31	Estimated: Bioconcentration factor
Builder	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Surfactant #2	Trade Secret	Estimated Bioconcentration		Bioaccumulation factor	3.5	Estimated: Bioconcentration factor

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other Adverse effects**

No information 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. As a disposal alternative, incinerate in a permitted waste incineration 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.

**SECTION 14: Transport Information**

Not hazardous for transportation.

**Air Transport (IATA) Regulations**

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Packing Group:** Not applicable

**Marine Transport (IMDG)**

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## 3M™ Clean & Shine Daily Floor Enhancer Concentrate (Product No. 35, 3M™ Chemical Management Systems)

### 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.

### Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989  
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008  
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules  
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:  
The product is classified as Non-Hazardous as per MSIHC Rules, 1989.

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 2    **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.

### Revision information:

Section 1: Product identification numbers information was modified.  
Section 1: Product name information was modified.  
Section 2: Ingredient table information was modified.  
Section 04: Information on toxicological effects information was deleted.  
Section 9: pH information information was modified.  
Section 09: Volatile Organic Compounds information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12:Biocummulative potential information information was modified.

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