



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

3M VHB Surface Cleaner

3M Product identification numbers

DT-2729-9063-1

1.2 Use of substance/preparation

Industrial use.

1.3 Company/undertaking identification

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4 Emergency telephone number

+44 (0)1344 858 000

2. HAZARDS IDENTIFICATION

Indication of danger

Highly flammable.

Irritant.

Risk phrases

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Other hazards

Closed containers exposed to heat from fire may build pressure and explode. Contact with aluminum or zinc in a pressurized system may generate hydrogen gas which could create an explosion hazard. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Nbr	EU Inventory	% by weight	Classification
Propan-2-ol	67-63-0	EINECS 200-661-7	90 - 100	F:R11; Xi:R36; R67 (EU)
Water	7732-18-5	EINECS 231-791-2	< 10	

Please see section 16 for the full text of any risk phrases referred to under headings 2 and 3 of this Safety Data Sheet.

Please refer to section 15 for the any applicable Notas that have been applied to the above components

4. FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Inhalation

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

Skin contact

Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

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

Ingestion

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).

Unsuitable extinguishing media

Special exposure hazards

Flammable liquid and vapour. Closed containers exposed to heat from fire may build pressure and explode. Contact with aluminium or zinc in a pressurised system may generate hydrogen gas which could create an explosion hazard. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Special instructions for firefighters

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 equipment and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Remember, adding an absorbent material does not remove a toxic, corrosivity or

3M VHB Surface Cleaner

flammability hazard.

Environmental procedures

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in an approved metal container. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Refer to other sections of this Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. 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 using non-sparking tools. Clean up residue with detergent and water. Seal the container.

7. HANDLING & STORAGE

7.1 Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from aluminium and zinc. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Avoid inhalation of vapours, mists or spray. Avoid static discharge. Avoid eye contact with vapours, mists, or spray. For industrial or professional use only. Do not breathe vapours. Avoid contact with oxidising agents.

7.2 Storage

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container tightly closed. Store away from oxidising agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Ingredient	Agency	Limit type	Additional comments
Propan-2-ol	Health and Safety Comm. (UK)	TWA:999 mg/m ³ (400 ppm);STEL:1250 mg/m ³ (500 ppm)	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CELL: Ceiling

8.2 Exposure controls

8.2.1 Occupational exposure controls

Use with appropriate local exhaust ventilation.

Respiratory protection

Avoid inhalation of vapours, mists or spray.

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

Half face piece or full face air-purifying respirator with organic vapour cartridges.

Consult the current 3M Respiratory Selection Guide for additional information or contact 3M for technical assistance.

Hand protection

Gloves made from the following material(s) are recommended:
Nitrile rubber.

Eye/face protection

Avoid eye contact with vapours, mists, or spray.
The following eye protection(s) are recommended: Safety glasses with side shields.

Skin protection

Avoid prolonged or repeated 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.

Ingestion

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

8.2.2 Environmental exposure controls

No data available.

9. PHYSICAL/CHEMICAL PROPERTIES**9.1 General information**

Physical state	Liquid.
Specific Physical Form:	Low viscosity liquid
Appearance/Odour	Alcohol odour. Colourless, clear liquid.

9.2 Important health safety and environmental information

pH	7
Boiling point/boiling range	82.4 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not available.
Explosive properties	Not determined.
Oxidising properties	Not determined.
Flash point	12 °C
Flammable limits - LEL	2 % volume
Flammable limits - UEL	12.7 % volume
Vapour pressure	4.3 kPa [<i>Ref Std: AIR=1</i>]
Relative density	0.871 - 0.882 [<i>Ref Std: WATER=1</i>]
Water solubility	Complete
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	2.07 [<i>Ref Std: AIR=1</i>]
Viscosity	2.2 MPa-s [<i>@ 20 °C</i>]
Density	<i>No data available.</i>

9.3 Other information

Volatile organic compounds (VOC)	567 g/l
Percent volatile	100 % weight
VOC less H2O & exempt solvents	820 g/l

10. STABILITY & REACTIVITY

Stable. Hazardous polymerisation will not occur.

10.1 Conditions to avoid

Sparks and/or flames.
Heat.

10.2 Materials to avoid

Strong oxidising agents.
Alkali and alkaline earth metals.
Aluminium
Amines.

10.3 Hazardous decomposition products

Substance

Carbon monoxide.
Carbon dioxide.

Condition

During combustion.
During combustion.

11. TOXICOLOGICAL INFORMATION

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May be absorbed following inhalation and cause target organ effects.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May be absorbed following ingestion and cause target organ effects.

Eye contact

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

Skin contact

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

Other health effects

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

Prolonged or repeated exposure may cause:

Dermal effects: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

12. ECOLOGICAL INFORMATION

A conservative assessment indicates this product presents a low environmental risk. Components released to the environment through use and disposal are expected to have minimal environmental impact.

12.1 Ecotoxicity

Material	Organism	Type	Exposure	Test endpoint	Test result
3M VHB Surface Cleaner	Fathead minnow	Laboratory	96 hours	LC50	mg/l

3M VHB Surface Cleaner

12.2 Mobility

Please contact 3M for more details.

12.3 Persistence and degradability

No test data available.

12.4 Bioaccumulative potential

No test data available.

12.5 Results of PBT assessment

No data available at this time, contact 3M for more details.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal method: Reclaim solvent if feasible. Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

20 01 29* Detergents containing dangerous substances

Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORTATION INFORMATION

DT-2729-9063-1

ADR/RID: UN1219, ISOPROPANOL, (ISOPROPYLALCOHOL) LIMITED QUANTITY, 3., II , (D/E), ADR Classification Code: F1.

IMDG-CODE: UN1219, ISOPROPANOL, 3, II , LIMITED QUANTITY, EMS: FE,SD.

ICAO/IATA: FORBIDDEN: IATA PRESSURE TEST ACC. 5.0.2.9 NOT PERFORMED ONPACKAGE

15. REGULATORY INFORMATION

Symbols

F	Highly flammable.
Xi	Irritant.

Contains:

3M VHB Surface Cleaner

No ingredients are assigned to the label.

Risk phrases

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Safety phrases

S16 Keep away from sources of ignition - No Smoking.

Special provisions concerning the labelling of certain substances

Notes on labelling

Updated per Regulation (EC) 648/2004 on detergents.

16. OTHER INFORMATION

List of relevant R-phrases

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Restrictions on use

For industrial or professional use only.

Global inventory status

Contact 3M for more information.

Revision information:

No revision information is available.

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3M United Kingdom MSDSs are available at www.3M.com/uk