

3M Perfect-It III Fast Cut Plus Compound 50417**Symbols**

N Dangerous to environment.

Contains:

No ingredients are assigned to the label.

Risk phrases

R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.
 R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S2 Keep out of the reach of children.
 S23A Do not breathe vapour.
 S24 Avoid contact with skin.
 S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.
 S29 Do not empty into drains.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Notes on labelling

R65 is not required on the label due to the product's viscosity.

Nota P applied to CAS 64742-82-1.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		30 - 40	
Aluminium oxide (REACH Reg. No.:01-2119529248-35)	1344-28-1	EINECS 215-691-6	30 - 40	STOT RE 2, H373 (Self Classified)
Naphtha (petroleum), hydrodesulphurised heavy	64742-82-1	EINECS 265-185-4	10 - 20	Xn:R65 - Nota 4,H,P (EU) R10 (Vendor) N:R51/53; R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota H,P (CLP) Flam. Liq. 3, H226 (Vendor) STOT SE 3, H336 (Self Classified)
Distillates (petroleum), hydrotreated light	64742-47-8	EINECS 265-149-8	1 - 10	Xn:R65 - Nota 4,H (EU) R66; R67 (Self Classified) N:R51/53 (Concawe no. 01/54) Asp. Tox. 1, H304 (CLP) STOT SE 3, H336 (Self Classified)
Glycerin	56-81-5	EINECS 200-	1 - 5	

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		289-5		
Sorbitan monooleate, ethoxylated	9005-65-6	NLP 500-019-9	1 - 5	
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	EINECS 265-198-5	1 - 5	Xn:R65 - Nota 4,H (EU) N:R50/53; R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota H (CLP) STOT SE 3, H336; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 (Self Classified)
White mineral oil (petroleum)	8042-47-5	EINECS 232-455-8	1 - 5	Xn:R65 (Self Classified) Asp. Tox. 1, H304 (Self Classified)
Solution of an alkylolammonium salt of a lower molecular weight polycarboxylic acid polymer	None		0.5 - 1.5	
Processed Oil	Trade Secret		0.5 - 1.5	

Please see section 16 for the full text of any R phrases and H statements referred to in this section

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

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures**4.1. Description of first aid measures****Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

Skin contact

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

Inhalation

Remove person to fresh air. If you feel unwell, 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

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. Extinguishing media**

In case of fire: Use a fire fighting agent suitable for flammable liquids or gases such as dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Evacuate area. Ventilate the area with fresh air. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

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 toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Place in a closed container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Vapours may travel long distances along the ground or floor to an ignition source and flash back. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. 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 acids. Store away from oxidising agents. Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
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Aluminium oxide	1344-28-1	Health and Safety Comm. (UK)	TWA(as inhalable dust):10 mg/m ³ ;TWA(as respirable dust):4 mg/m ³
Glycerin	56-81-5	Health and Safety Comm. (UK)	TWA(as mist):10 mg/m ³

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

CEIL: Ceiling

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Indirect vented goggles.

Skin/hand protection

Wear protective gloves.

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

Nitrile rubber.

Respiratory protection

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

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	White liquid; Paraffinic odour.
pH	7 - 9
Boiling point/boiling range	> 65 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Flammable Liquid: Category 4.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	>=65 °C [<i>Test Method</i> :Pensky-Martens Closed Cup]
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1.25 [<i>Ref Std</i> :WATER=1]
Water solubility	<i>No data available.</i>

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Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>Not applicable.</i>
Vapour density	<i>No data available.</i>
Viscosity	30 - 45 Pa-s
Density	1.25 g/ml

9.2. Other information

Volatile organic compounds (VOC)	277 g/l
Percent volatile	28 %
VOC less H₂O & exempt solvents	26 %

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

High shear and high temperature conditions
Sparks and/or flames.

10.5 Incompatible materials

Alkali and alkaline earth metals.
Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon dioxide.	Not specified.
Carbon monoxide.	Not specified.
Hydrocarbons.	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 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:

Eye contact

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Contact with the eyes during product use is not expected to result in significant irritation. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin contact

Moderate skin irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

Ingestion

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

Target Organ 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:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5000 mg/kg	Not classified (% unknown)
Aluminium oxide	Inhalation-Dust/Mist (4 hours)	Rabbit	LC50 > 1.9 mg/l	Not classified
Aluminium oxide	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Dermal	Rabbit	LD50 > 3000 mg/kg	Category5
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation-Vapor (4 hours)	Rat	LC50 estimated to be 20 - 50 mg/l	Category5
Naphtha (petroleum), hydrodesulphurised heavy	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
Distillates (petroleum), hydrotreated light	Dermal	Rabbit	LD50 > 3160 mg/kg	Category5
Distillates (petroleum), hydrotreated light	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.0 mg/l	Not classified
Distillates (petroleum), hydrotreated light	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
Sorbitan monooleate, ethoxylated	Ingestion	Rat	LD50 > 38000 mg/kg	Not classified
Solvent naphtha (petroleum), heavy aromatic	Dermal	Rabbit	LD50 > 2000 mg/kg	Not classified
Solvent naphtha (petroleum), heavy aromatic	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5000 mg/kg	Not classified

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Glycerin	Ingestion	Rat	LD50 > 5000 mg/kg	Not classified
Processed Oil	Ingestion		LD50 estimated to be > 5000 mg/kg	Not classified

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be mild irritant	Category 3
Aluminium oxide		No data available	
Naphtha (petroleum), hydrodesulphurised heavy		Mild irritant	Category 3
Distillates (petroleum), hydrotreated light		Mild irritant	Category 3
White mineral oil (petroleum)		Minimal irritation	Not classified
Sorbitan monooleate, ethoxylated		No data available	
Solvent naphtha (petroleum), heavy aromatic		Mild irritant	Category 3
Glycerin	Rabbit	No significant irritation	Not classified
Processed Oil		Minimal irritation	Not classified

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Aluminium oxide		No data available	
Naphtha (petroleum), hydrodesulphurised heavy		Mild irritant	Not classified
Distillates (petroleum), hydrotreated light		Mild irritant	Not classified
White mineral oil (petroleum)		Mild irritant	Not classified
Sorbitan monooleate, ethoxylated		No data available	
Solvent naphtha (petroleum), heavy aromatic		Mild irritant	Not classified
Glycerin	Rabbit	No significant irritation	Not classified
Processed Oil		Mild irritant	Not classified

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Aluminium oxide		No data available	
Naphtha (petroleum), hydrodesulphurised heavy		Not sensitizing	Not classified
Distillates (petroleum), hydrotreated light		Not sensitizing	Not classified
White mineral oil (petroleum)		Not sensitizing	Not classified
Sorbitan monooleate, ethoxylated		No data available	
Solvent naphtha (petroleum), heavy aromatic		Not sensitizing	Not classified
Glycerin	Guinea pig	Not sensitizing	Not classified
Processed Oil		Some positive data exist,	Not classified

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		but the data are not sufficient for classification	
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Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Aluminium oxide		No data available	
Naphtha (petroleum), hydrodesulphurised heavy		No data available	
Distillates (petroleum), hydrotreated light		No data available	
White mineral oil (petroleum)		No data available	
Sorbitan monooleate, ethoxylated		No data available	
Solvent naphtha (petroleum), heavy aromatic		No data available	
Glycerin		No data available	
Processed Oil		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Aluminium oxide	In Vitro	Not mutagenic	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	Not mutagenic	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
Distillates (petroleum), hydrotreated light	In Vitro	Not mutagenic	Not classified
White mineral oil (petroleum)	In Vitro	Not mutagenic	Not classified
Sorbitan monooleate, ethoxylated		No data available	
Solvent naphtha (petroleum), heavy aromatic		No data available	
Glycerin		No data available	
Processed Oil	In Vitro	Not mutagenic	Not classified
Processed Oil	In vivo	Not mutagenic	Not classified

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Aluminium oxide	Inhalation		Not carcinogenic	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Dermal		Some positive data exist, but the data are not sufficient for classification	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation		Some positive data exist, but the data are not sufficient for	Not classified

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			classification	
Distillates (petroleum), hydrotreated light	Dermal		Some positive data exist, but the data are not sufficient for classification	Not classified
White mineral oil (petroleum)	Dermal		Not carcinogenic	Not classified
White mineral oil (petroleum)	Inhalation		Not carcinogenic	Not classified
Sorbitan monooleate, ethoxylated			No data available	
Solvent naphtha (petroleum), heavy aromatic	Dermal		Some positive data exist, but the data are not sufficient for classification	Not classified
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification	Not classified
Processed Oil			No data available	

Reproductive Toxicity
Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		No test data available.				Not classified based on component data
Aluminium oxide		No data available				
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	Not toxic to reproduction and/or development		NOAEL 2.356 mg/l		
Distillates (petroleum), hydrotreated light	Inhalation	Not toxic to reproduction and/or development		NOAEL 364 ppm		
White mineral oil (petroleum)	Ingestion	Not toxic to reproduction and/or development		NOAEL 4350 mg/kg/day		
Sorbitan monooleate, ethoxylated		No data available				
Solvent naphtha (petroleum), heavy aromatic	Ingestion	Not toxic to reproduction and/or development		NOAEL 450 mg/kg/day		
Solvent naphtha (petroleum), heavy aromatic	Inhalation	Not toxic to reproduction and/or development		NOAEL 364 ppm		
Glycerin	Ingestion	Not toxic to female reproduction	Rat	NOAEL 2000 mg/kg/day	2 generation	
Glycerin	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2000	2 generation	

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				mg/kg/day		
Glycerin	Ingestion	Not toxic to development	Rat	NOAEL 2000 mg/kg/day	2 generation	
Processed Oil	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 248 mg/kg/day		

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Aluminium oxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.5 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 2.4 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	heart	All data are negative		NOAEL 2.5 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	liver	All data are negative		NOAEL 0.610 mg/l		Not classified

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Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	muscles	All data are negative		NOAEL 0.61 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	kidney and/or bladder	All data are negative		NOAEL 0.610 mg/l		Not classified
Distillates (petroleum), hydrotreated light	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Distillates (petroleum), hydrotreated light	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
White mineral oil (petroleum)			No data available				
Sorbitan monooleate, ethoxylated			No data available				
Solvent naphtha (petroleum), heavy aromatic	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Solvent naphtha (petroleum), heavy aromatic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Glycerin			No data available				
Processed Oil			No data available				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 2 based on component data
Aluminium oxide	Inhalation	pneumoniosis	May cause damage to organs though prolonged or repeated exposure		NOAEL N/A		Category 2

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Aluminium oxide	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 691 mg/kg		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	endocrine system muscles	Some positive data exist, but the data are not sufficient for classification		LOEL 0.616 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 4.580 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.57 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.619 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	heart	All data are negative		NOAEL 1.271 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	bone, teeth, nails, and/or hair blood liver	All data are negative		NOAEL 5.62 mg/l		Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	immune system	All data are negative		NOAEL 0.616 mg/l		Not classified
Distillates (petroleum), hydrotreated light	Dermal	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Distillates (petroleum), hydrotreated	Dermal	liver	Some positive data exist, but the data are not		NOEL 1000 mg/kg/day		Not classified

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light			sufficient for classification				
Distillates (petroleum), hydrotreated light	Inhalation	hematopoietic system	All data are negative		NOAEL 0.1 mg/l		Not classified
Distillates (petroleum), hydrotreated light	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 100 mg/kg/day		Not classified
Distillates (petroleum), hydrotreated light	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOAEL 100 mg/kg		Not classified
White mineral oil (petroleum)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 340 mg/kg/day		Not classified
White mineral oil (petroleum)	Ingestion	liver immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.4 mg/kg/day		Not classified
Sorbitan monooleate, ethoxylated			No data available				
Solvent naphtha (petroleum), heavy aromatic	Dermal	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL 1000 mg/kg/day		Not classified
Solvent naphtha (petroleum), heavy aromatic	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
Solvent naphtha (petroleum), heavy aromatic	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 300 mg/kg/day		Not classified
Solvent naphtha (petroleum), heavy aromatic	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 300 mg/kg/day		Not classified
Glycerin	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.91 mg/l	14 days	Not classified
Glycerin	Inhalation	heart	All data are	Rat	NOAEL	14 days	Not classified

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		liver kidney and/or bladder	negative		3.91 mg/l		
Glycerin	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	All data are negative	Rat	NOAEL 10,000 mg/kg/day	2 years	Not classified
Processed Oil	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 248 mg/kg/day		Not classified
Processed Oil	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 300 mg/kg/day		Not classified
Processed Oil	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 2000 mg/kg/day		Not classified
Processed Oil	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 3000 mg/kg/day		Not classified

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Aluminium oxide	Not an aspiration hazard	Not classified
Naphtha (petroleum), hydrodesulphurised heavy	Aspiration hazard	Category 1
Distillates (petroleum), hydrotreated light	Aspiration hazard	Category 1
White mineral oil (petroleum)	Aspiration hazard	Category 1
Sorbitan monooleate, ethoxylated	Not an aspiration hazard	Not classified
Solvent naphtha (petroleum), heavy aromatic	Aspiration hazard	Category 1
Glycerin	Not an aspiration hazard	Not classified
Processed Oil	Not an aspiration hazard	Not classified

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications

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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 2: Toxic to aquatic life with long lasting effects.

Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Incinerate in an industrial or commercial facility. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

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)

120109* Machining emulsions and solutions free of halogens
161001* Aqueous liquid wastes containing dangerous substances

SECTION 14: Transportation information

GC-8010-1481-9

ADR/RID: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHA

(PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, (E), ENVIRONMENTALLY HAZARDOUS, ADR Classification Code: M6.

IMDG-CODE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, EMS: FA, SF.

ICAO/IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, fish and tree marking may be required (> 5kg/l).

GC-8010-2249-9, GC-8010-2861-1, GC-8010-2862-9

ADR/RID: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. LIMITED QUANTITY, (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, (--), ADR Classification Code: M6.

IMDG-CODE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, LIMITED QUANTITY, EMS: FA, SF.

ICAO/IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY), (HYDROTREATED LIGHT PETROLEUM DISTILLATES), 9., III, fish and tree marking may be required (> 5kg/l).

SECTION 15: Regulatory information

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

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more 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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). 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.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R10	Flammable.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R65	Harmful: May cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Revision information:

Revision Changes:

Section 16: List of relevant R phrase information was modified.

Section 3: Composition/ Information of ingredients table was modified.

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.

Skin Corrosion/Irritation Table was modified.

Target Organs - Repeated Table was modified.

Target Organs - Single Table was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on 3M's experience and is correct to the best of 3M's knowledge at the date of publication. 3M does not accept liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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