



MPM Screenwash Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 30.03.2009 Revision date: 23.11.2023 Supersedes: 12.12.2022 version: 8.7

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : MPM Screenwash Concentrate
UFI : 1UVE-C231-AT7D-GAEE
Product code : 84000
Product group : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV
Cyclotronweg 1
2629 HN Delft - Nederland
T +31 (0)15 2514030
info@mpmoil.com - www.mpmoil.com

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

CLP Signal word :

Warning

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 - Wear protective gloves, eye protection.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local and national regulations.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	$\geq 50 - < 60$	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1,2-ethanediol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	$\geq 5 - < 10$	Acute Tox. 4 (Oral), H302

Specific concentration limits

Name	Product identifier	Specific concentration limits
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	$(50 \leq C < 100)$ Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

General	: If medical advice is needed, have product container or label at hand. If you feel unwell, seek medical advice.
After inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
After skin contact	: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation persists.
After ingestion	: Let water be swallowed in little sips (dilution effect). Do NOT induce vomiting. Get medical advice/attention. Rinse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

After inhalation	: High concentration of vapours may induce: headache, nausea, dizziness. Coughing.
After skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
After eye contact	: Eye irritation.
After ingestion	: Abdominal pain.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray, powder, foam and CO2.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: Vapours may cause fire/explosion if source of ignition is present.
Explosion hazard	: Vapours may form explosive mixture with air.

5.3. Advice for firefighters

Other information	: Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Use a water spray to cool exposed surfaces and to protect fire-fighters.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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6.1.1. For non-emergency personnel

Protective equipment	: Ensure adequate ventilation. Wear suitable protective clothing and gloves.
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6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves. Avoid contact with eyes, skin and clothing.
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6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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Methods for cleaning up : Sand or other absorbent.
Other information : Ensure adequate ventilation.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Keep only in original packaging. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Storage area : Store in a closed container. Keep in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Ethanol (64-17-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m ³)	260 (NL); 950 (NO); 960 (DE, CH, SK); 1000 (SE, CS, ET, LT, BG, LV, RU); 1900 (DK, FR, FI, GR, AT, HU, SL, HR, PL); 1907 (BE); 1910 (ES); 1920 (GB)
IOELV TWA (ppm)	1000 (FR, GB, PT, BE, ES, DK, FI); 500 (DE, SE, NO, CH)
IOELV STEL (mg/m ³)	1900 (LT, ET, NL, SE); 1920 (CH, SK); 2500 (FI); 3000 (CS); 3800 (AT); 9500 (FR)
IOELV STEL (ppm)	5000 (FR); 1000 (SE, CH); 1300 (FI)
Ireland - Occupational Exposure Limits	
Local name	Ethanol [Ethyl alcohol]
OEL (15 min ref) (ppm)	1000 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
1,2-ethanediol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol

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1,2-ethanediol (107-21-1)	
IOELV TWA (mg/m ³)	52 mg/m ³
IOELV STEL (mg/m ³)	104 mg/m ³
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	Ethane-1,2-diol [Ethylene glycol]
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ particulate 52 mg/m ³ vapour
OEL (8 hours ref) (ppm)	20 ppm vapour
OEL (15 min ref) (mg/m ³)	104 mg/m ³ vapour
OEL (15 min ref) (ppm)	40 ppm vapour
Regulatory reference	Chemical Agents Code of Practice 2021
United Kingdom - Occupational Exposure Limits	
Local name	Ethane-1,2-diol
WEL TWA (mg/m ³)	10 mg/m ³ particulate 52 mg/m ³ vapour
WEL TWA (ppm)	20 ppm vapour
WEL STEL (mg/m ³)	104 mg/m ³ vapour
WEL STEL (OEL STEL) [ppm]	40 ppm vapour
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

No additional information available.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Protective goggles. Gloves.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

None under normal use

Hand protection:

Wear suitable gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,35	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.	

8.2.2.3. Respiratory protection

Respiratory protection:

No personal breathing protective equipment is normally required. Not necessary with sufficient ventilation

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

No additional information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Blue.
Odour	: Alcohol odour.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -46 °C
Boiling point	: > 78 (78 – 192) °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 23 °C DIN EN ISO 13736
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7 – 8
pH solution	: 7 – 8
Viscosity, kinematic	: Not available
Solubility	: Water: 100 %
Log Kow	: Not available
Vapour pressure	: 2332 Pa
Vapour pressure at 50°C	: Not available
Density	: 915 kg/m ³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable

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Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

VOC content : 59,01 %

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool.

10.5. Incompatible materials

Oxidizing substances.

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 oral	8300 mg/kg bodyweight mouse
LD50 dermal rat	> 15800 mg/kg
LC50 Inhalation - Rat	30000 mg/m ³
ATE CLP (oral)	8300 mg/kg bodyweight
ATE CLP (vapours)	30 mg/l/4h
ATE CLP (dust,mist)	30 mg/l/4h
1,2-ethanediol (107-21-1)	
LD50 dermal rat	> 3500 mg/kg

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1,2-ethanediol (107-21-1)	
LC50 Inhalation - Rat	> 2,5 mg/l @ 6h
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Not classified pH: 7 – 8
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7 – 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

1,2-ethanediol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1500 mg/kg bodyweight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Ethanol (64-17-5)	
NOAEL (subchronic, oral, animal/male, 90 days)	9700 mg/kg bodyweight EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	9400 mg/kg bodyweight Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

General : No hazards to be specially mentioned.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Ethanol (64-17-5)	
LC50 fish 1	11200 mg/l /96h
EC50 Daphnia 1	5012 mg/l /48h Freshwater
ErC50 (algae)	275 mg/l /72h Freshwater
NOEC (chronic)	9,6 mg/l Daphnia magna @9d

1,2-ethanediol (107-21-1)	
LC50 fish 1	72860 mg/l @ 96h (Pimephales promelas)
EC50 Daphnia 1	> 100 mg/l @ 48h (EOCD Guideline 202, Daphnia magna)
EC50 96h - Algae [2]	6500 – 13000 mg/l @ Pseudokirchneriella subcapitata

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1,2-ethanediol (107-21-1)

NOEC chronic fish	15380 mg/l @ 7d, Pimephales promelas
NOEC chronic crustacea	8590 mg/l @ Ceriodaphnia dubia

12.2. Persistence and degradability

1,2-ethanediol (107-21-1)

Biodegradation	Readily biodegradable
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12.3. Bioaccumulative potential

1,2-ethanediol (107-21-1)

Log Pow	-1,36
Bioaccumulative potential	There is no bioaccumulation.

12.4. Mobility in soil

1,2-ethanediol (107-21-1)

Soil	This material has low volatility and is water soluble hence the potential for mobility is high.
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12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.
European List of Waste (LoW, EC 2000/532) : 07 06 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. : UN 1170
UN-No. (IMDG) : UN 1170
UN-No. (ICAO) : UN 1170
UN-No. (ADN) : UN 1170
UN-No. (RID) : UN 1170

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (IATA) : Ethanol solution
Proper Shipping Name (ADN) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

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Proper Shipping Name (RID)	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport document description (ADR)	: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)
Transport document description (IMDG)	: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III
Transport document description (IATA)	: UN 1170 Ethanol solution, 3, III
Transport document description (ADN)	: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III
Transport document description (RID)	: UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (UN)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	: 3
Danger labels (ICAO)	: 3



ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3



RID

Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3



14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

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Packing group (ADN) : III
Packing group (RID) : III

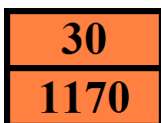
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E

Transport by sea

Limited quantities (IMDG) : 5 L
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D

Air transport

No data available.

Inland waterway transport

No data available.

Rail transport

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)
VOC content : 59,01 %

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	

Full text of H- and EUH-statements

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.