

# S4 -40

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: MELLGC3072

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : S4 -40  
Product code : 60142-60143-60144  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Professional use, Consumer use  
Use of the substance/mixture : Windscreen washer

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

IPC  
10 Quai Malbert, 29200,  
BREST, FRANCE.  
Tel. : +33 (0)2 98 43 45 44.  
Fax : +33 (0)2 98 44 22 53  
ipc@groupe-ipc.com

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

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

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

Flam. Liq. 2 H225  
Eye Irrit. 2 H319

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

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Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Child-resistant fastening	: Not applicable
Tactile warning	: Applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII  
Contains no PBT/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 substance with national workplace exposure limit(s) (GB)	CAS-No.: 64-17-5 EC-No.: 200-578-6 REACH-no: 01-2119457610-43	50 – 80	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Ethylene Glycol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
butanone, ethyl methyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
propan-2-ol, isopropyl alcohol, isopropanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: Symptoms may include dizziness, headache, nausea and loss of coordination.
Symptoms/effects after skin contact	: Redness. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

#### 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	: Dry powder. Alcohol resistant foam. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Explosion hazard	: May form flammable/explosive vapour-air mixture.
Reactivity in case of fire	: On burning: release of toxic and corrosive gases/vapours e.g.: (carbon monoxide - carbon dioxide).

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment	: Keep public away. Concerning personal protective equipment to use, see section 8.
Emergency procedures	: Provide adequate ventilation.

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### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves. Avoid breathing vapours. Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area. Stop leak if safe to do so.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For disposal of residues refer to section 13 : Disposal considerations" .

## 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 sources of ignition - No smoking. Do not eat, drink or smoke in areas where product is used. Use only non-sparking tools. Provide proper grounding. Prevent the build-up of electrostatic charge. No open flames. No smoking.
- Hygiene measures : No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Avoid the build-up of electrostatic charge.
- Storage conditions : Keep away from sources of ignition - No smoking. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed. Keep container closed when not in use.
- Heat and ignition sources : No flames, no sparks. Eliminate all sources of ignition.
- Storage area : Store away from heat.
- Special rules on packaging : Keep only in original container.

### 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

Ethylene Glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m <sup>3</sup>

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<b>Ethylene Glycol (107-21-1)</b>	
IOEL STEL [ppm]	40 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Ethane-1,2-diol
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> particulate 52 mg/m <sup>3</sup> vapour
WEL TWA (OEL TWA) [2]	20 ppm vapour
WEL STEL (OEL STEL)	104 mg/m <sup>3</sup> vapour
WEL STEL (OEL STEL) [ppm]	40 ppm vapour
Remark	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
<b>butanone, ethyl methyl ketone (78-93-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Butanone
IOEL TWA	600 mg/m <sup>3</sup>
IOEL TWA [ppm]	200 ppm
IOEL STEL	900 mg/m <sup>3</sup>
IOEL STEL [ppm]	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (OEL TWA) [1]	600 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	899 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	300 ppm
Remark	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
<b>United Kingdom - Biological limit values</b>	
Local name	Butan-2-one (methyl ethyl ketone)
BMGV	70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Propan-2-ol
WEL TWA (OEL TWA) [1]	999 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m <sup>3</sup>

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propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Ethanol (64-17-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA) [1]	1920 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	1000 ppm
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

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Safety glasses.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

No additional information available

#### 8.2.2.2. Skin protection

No additional information available

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Handle in accordance with good industrial hygiene and safety practice. Provide local exhaust or general room ventilation to minimize vapour concentrations. Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour	: pink.
Appearance	: clear.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: $\approx -42$ °C
Boiling point	: $> 35$ °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 20,5 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 6 – 9
Viscosity, kinematic	: Not available
Solubility	: Soluble in water. Soluble in alcohols.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: $\approx 0,892$ kg/l
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: 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 :  $\approx 520$  g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

All heat sources, including direct sunlight. Sparks. Open flame.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## 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

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Acute toxicity (inhalation) : Not classified

<b>Ethylene Glycol (107-21-1)</b>	
LD50 oral rat	7712 mg/kg bodyweight Animal: rat
LD50 dermal	> 3500 mg/kg (mouse)
LC50 Inhalation - Rat	> 2,5 mg/l (6h, tested with aerosol)

<b>butanone, ethyl methyl ketone (78-93-3)</b>	
LD50 oral rat	2054 mg/kg bodyweight (rat, male) [OECD 423]
LD50 oral	2328 mg/kg bodyweight (rat, female) [OECD 423]
LD50 dermal rabbit	> 10 ml/kg (OECD 402 method)
LD50 dermal	6400 – 8000 mg/kg bodyweight LD50 dermal rabbit

<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	16,4 ml/kg (OECD 402 method)
LC50 Inhalation - Rat [ppm]	> 10000 ppm (ppm/6h, vapour) [OECD 403]

<b>Ethanol (64-17-5)</b>	
LD50 oral rat	10470 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 9720 - 11380

Skin corrosion/irritation : Not classified

pH: 6 – 9

Serious eye damage/irritation : Causes serious eye irritation.

pH: 6 – 9

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

<b>butanone, ethyl methyl ketone (78-93-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

<b>propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

<b>Ethylene Glycol (107-21-1)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

<b>butanone, ethyl methyl ketone (78-93-3)</b>	
NOAEC (inhalation, rat, gas, 90 days)	5041 ppmv/6h/day (OECD 413 method)

<b>Ethanol (64-17-5)</b>	
LOAEL (oral, rat, 90 days)	3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Ethylene Glycol (107-21-1)	
LC50 - Fish [1]	72860 mg/l (Pimephales promelas, 96h)
EC50 - Crustacea [1]	> 100 mg/l (Daphnia magna, 48h) [OCDE 202]
ErC50 algae	6500 – 13000 mg/l (selenastrum capricornutum, 96h)
ErC50 other aquatic plants	> 100 mg/l (72h)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
NOEC chronic fish	15380 mg/l (Pimephales promelas, 7d)
NOEC chronic crustacea	8590 mg/l (Ceriodaphnia sp., 7d)

butanone, ethyl methyl ketone (78-93-3)	
LC50 - Fish [1]	2993 mg/l (Pimephales promelas, 96h) [OECD 203]
EC50 - Crustacea [1]	308 mg/l (Daphnia magna, 48h) [OECD 202]
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	1972 mg/l (Algae, 72h) [OECD 201]
NOEC (acute)	1170 mg/l (Pimephales promelas, 96h) [OECD 203]

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
LC50 - Other aquatic organisms [1]	> 10000 mg/l (Daphnia magna, 24h) [OECD 202]

Ethanol (64-17-5)	
EC50 - Crustacea [1]	> 10000 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

#### 12.2. Persistence and degradability

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Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ethylene Glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.

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### butanone, ethyl methyl ketone (78-93-3)

Biodegradation	98 % (28d) (experimental)
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### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Biodegradation	53 % (5d)
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## 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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### Ethylene Glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-1,93
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### butanone, ethyl methyl ketone (78-93-3)

Partition coefficient n-octanol/water (Log Pow)	3
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Partition coefficient n-octanol/water (Log Kow)	0,3 (40 °C)
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### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Partition coefficient n-octanol/water (Log Pow)	0,05
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## 12.4. Mobility in soil

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Ecology - soil	The product dissolves rapidly in water.
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## 12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous or special waste collection point.

## SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987

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ADR	IMDG	IATA	ADN	RID
<b>14.2. UN proper shipping name</b>				
ALCOHOLS, N.O.S. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)	Alcohols, n.o.s. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)
<b>Transport document description</b>				
UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, II, (D/E)	UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, II	UN 1987 Alcohols, n.o.s. (Ethanol), 3, II	UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, II	UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, II
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 274, 601, 640D  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

#### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP8, TP28

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EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : B

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A180  
ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 61, 64D  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 274, 601, 640D  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

## 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)  
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)  
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)  
VOC content : ≈ 520 g/l

# S4 -40

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Detergent Regulation : Labelling of contents (648/2004/EC):

Component	%
perfumes	

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Catégorie 3		Annexe I

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Indication of changes

Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method

Safety Data Sheet (SDS), EU

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.

# S4 -40

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Annex to the safety data sheet

Product exposure scenario(s)	
ES Type	ES title
Professional	Windscreen washer
Professional	Windscreen washer
Professional	Windscreen washer
Consumer	Windscreen washer

# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 1. Windscreen washer

#### 1.1. Title section

##### Windscreen washer

ES Type: Professional

#### Environment

Lead Component : Ethanol

#### Use descriptors

ERC8a, ERC8d

#### Worker

Lead Component : Ethanol

#### Use descriptors

PROC10, PROC13, PROC14, PROC19

Processes, tasks, activities covered

brush or roller  
roller, spreader, flow coating or printing  
Treatment of articles by dipping and pouring

#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: Lead Component : Ethanol (ERC8a, ERC8d)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Assessment method	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

##### 1.2.2. Control of worker exposure: Lead Component : Ethanol (PROC10, PROC13, PROC14, PROC19)

PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROC14	Tableting, compression, extrusion, pelettisation, granulation
PROC19	Manual activities involving hand contact

#### Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently)

#### Amount used (or contained in articles), frequency and duration of use/exposure

Covers daily exposures up to 8 hours

#### Technical and organisational conditions and measures

Assumes a good basic standard of occupational hygiene is implemented

Splash goggles

#### Other conditions affecting workers exposure

Assumes use at not more than 20°C above ambient temperature.

# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 1.3. Exposure estimation and reference to its source

#### 1.3.1. Environmental release and exposure Lead Component : Ethanol (ERC8a, ERC8d)

No information available

#### 1.3.2. Worker exposure Lead Component : Ethanol (PROC10, PROC13, PROC14, PROC19)

#### Information for contributing exposure scenario

Lead Component : Ethanol, Risk Management Measures are based on qualitative risk characterisation, Qualitative approach used to conclude safe use

### 1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 1.4.1. Environment

Guidance - Environment

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

#### 1.4.2. Health

Guidance - Health

Risk Management Measures are based on qualitative risk characterisation. Qualitative approach used to conclude safe use



# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 2. Windscreen washer

#### 2.1. Title section

##### Windscreen washer

ES Type: Professional

Environment	Use descriptors
Lead Component : Ethanol	ERC8a, ERC8d

Worker	Use descriptors
Lead Component : Ethanol	PROC10, PROC13, PROC14, PROC19

Processes, tasks, activities covered	brush or roller roller, spreader, flow coating or printing Treatment of articles by dipping and pouring
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#### 2.2. Conditions of use affecting exposure

##### 2.2.1. Control of environmental exposure: Lead Component : Ethanol (ERC8a, ERC8d)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Assessment method	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

##### 2.2.2. Control of worker exposure: Lead Component : Ethanol (PROC10, PROC13, PROC14, PROC19)

PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROC14	Tabletting, compression, extrusion, pelettisation, granulation
PROC19	Manual activities involving hand contact

#### Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently)

#### Amount used (or contained in articles), frequency and duration of use/exposure

Covers daily exposures up to 8 hours	
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#### Technical and organisational conditions and measures

Assumes a good basic standard of occupational hygiene is implemented	
	Splash goggles

#### Other conditions affecting workers exposure

Assumes use at not more than 20°C above ambient temperature.	
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#### 2.3. Exposure estimation and reference to its source

##### 2.3.1. Environmental release and exposure Lead Component : Ethanol (ERC8a, ERC8d)

No information available

# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 2.3.2. Worker exposure Lead Component : Ethanol (PROC10, PROC13, PROC14, PROC19)

#### Information for contributing exposure scenario

Lead Component : Ethanol, Risk Management Measures are based on qualitative risk characterisation, Qualitative approach used to conclude safe use

### 2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 2.4.1. Environment

Guidance - Environment

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

#### 2.4.2. Health

Guidance - Health

Risk Management Measures are based on qualitative risk characterisation. Qualitative approach used to conclude safe use

# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 3. Windscreen washer

#### 3.1. Title section

##### Windscreen washer

ES Type: Professional

Environment	Use descriptors
Lead Component : Ethanol	ERC8a, ERC8d

Worker	Use descriptors
Lead Component : Ethanol	PROC11

Processes, tasks, activities covered	Spraying
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#### 3.2. Conditions of use affecting exposure

##### 3.2.1. Control of environmental exposure: Lead Component : Ethanol (ERC8a, ERC8d)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Assessment method	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

##### 3.2.2. Control of worker exposure: Lead Component : Ethanol (PROC11)

PROC11	Non industrial spraying
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#### Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently)

#### Amount used (or contained in articles), frequency and duration of use/exposure

Covers daily exposures up to 8 hours	
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#### Technical and organisational conditions and measures

Assumes a good basic standard of occupational hygiene is implemented	
	Splash goggles

#### Other conditions affecting workers exposure

Assumes use at not more than 20°C above ambient temperature.	
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#### 3.3. Exposure estimation and reference to its source

##### 3.3.1. Environmental release and exposure Lead Component : Ethanol (ERC8a, ERC8d)

No information available

##### 3.3.2. Worker exposure Lead Component : Ethanol (PROC11)

Information for contributing exposure scenario
Risk Management Measures are based on qualitative risk characterisation, Qualitative approach used to conclude safe use, Lead Component : Ethanol

# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 3.4.1. Environment

Guidance - Environment	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed
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#### 3.4.2. Health

Guidance - Health	Risk Management Measures are based on qualitative risk characterisation. Qualitative approach used to conclude safe use
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# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

### 4. Windscreen washer

#### 4.1. Title section

##### Windscreen washer

ES Type: Consumer

Environment	Use descriptors
Lead Component : Ethanol	ERC8d

Consumer	Use descriptors
Lead Component : Ethanol	PC4

Processes, tasks, activities covered	Windscreen washer Antifreeze and de-icing products
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#### 4.2. Conditions of use affecting exposure

##### 4.2.1. Control of environmental exposure: Lead Component : Ethanol (ERC8d)

ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Assessment method	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

##### 4.2.2. Control of consumer exposure: Lead Component : Ethanol (PC4)

PC4	Anti-Freeze and De-icing products
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#### Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently)

#### Other conditions affecting consumer exposure

Avoid contact with eyes	
Risk Management Measures are based on qualitative risk characterisation	
Avoid contact with eyes	
Prevent aerosol formation or splashes.	

#### 4.3. Exposure estimation and reference to its source

##### 4.3.1. Environmental release and exposure Lead Component : Ethanol (ERC8d)

No information available

##### 4.3.2. Consumer exposure Lead Component : Ethanol (PC4)

#### Information for contributing exposure scenario

Lead Component : Ethanol,Risk Management Measures are based on qualitative risk characterisation,Qualitative approach used to conclude safe use

#### 4.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

##### 4.4.1. Environment

Guidance - Environment	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed
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# S4 -40

## Annex to the safety data sheet: Exposure scenario

Reference number: MELLGC3072 Product form: Mixture Physical state: Liquid

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### 4.4.2. Health

Guidance - Health	For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region
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