

# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)



## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name : MOTOCOOL EXPERT  
Product code : 43800

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

Cooling liquid

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

Registered company name : MOTUL  
Address : 119, Boulevard Felix Faure. 93300 AUBERVILLIERS CEDEX FRANCE  
Telephone : 33.1.48.11.70.00. Fax: 33.1.48.33.28.79. Telex: .  
Email : motul\_hse@motul.fr

### 1.4. Emergency telephone number : +44 (0) 1235 239 670.

Association/Organisation : ORFILA.

### Other emergency numbers

UNITED STATES: 001 866 928 0789 / CANADA: 001 800 579 7421 / MEXICO : +52 55 5004 8763 / MIDDLE EAST - AFRICA : +44 1235 239671  
BRAZIL : +55 11 3197 5891 / COLOMBIA : +57 601 508 7337 / ARGENTINA : +54 11 5984 3690 / CHILE : +562 2582 9336  
Ireland : +353 1 8092566  
24 hours a day, 7 days a week

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### In compliance with EC regulation No. 1272/2008 and its amendments.

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2. Label elements

#### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS08

Signal Word :

WARNING

Product identifiers :

EC 203-473-3 ETHYLENE GLYCOL

Hazard statements :

H373 May cause damage to organs through prolonged or repeated exposure (kidneys) (if swallowed).

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Response :

P314 Get medical advice/attention if you feel unwell.

Precautionary statements - Disposal :

P501 Dispose of contents / container according to prefectural ordinances.

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq$  0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation

(EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 107-21-1 EC: 203-473-3 REACH: 01-2119456816-28  ETHYLENE GLYCOL	GHS07, GHS08 Wng Acute Tox. 4, H302 STOT RE 2, H373	[1]	50 <= x % < 100
CAS: 29385-43-1 EC: 249-596-6 REACH: 01-2119979081-35  METHYL-1H-BENZOTRIAZOLE	GHS07, GHS09, GHS08 Wng Acute Tox. 4, H302 Repr. 2, H361d Aquatic Chronic 2, H411	[2]	0 <= x % < 1
POTASSIUM (2-BENZOTHAZOLYL)-THIO-ACETATE	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Chronic 3, H412	[2]	0 <= x % < 1

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
CAS: 107-21-1 EC: 203-473-3 REACH: 01-2119456816-28  ETHYLENE GLYCOL		oral: ATE = 1600 mg/kg BW
CAS: 29385-43-1 EC: 249-596-6 REACH: 01-2119979081-35  METHYL-1H-BENZOTRIAZOLE		oral: ATE = 720 mg/kg BW

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures****In the event of exposure by inhalation :**

Remove the victim to fresh air. If the symptoms persist, call a physician.

**In the event of splashes or contact with eyes :**

Wash immediately and abundantly with water, including under the eyelids.

**In the event of splashes or contact with skin :**

Immediately remove all soiled clothing.

Wash immediately and abundantly with soap and water.

**In the event of swallowing :**

Seek medical attention, showing the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

**Suitable methods of extinction**

Dry agent, foam, carbon dioxide.

**Unsuitable methods of extinction**

High volume water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

No data available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

Spilled product may make surfaces slippery.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Do not swallow

Do not get in eyes, on skin, or on clothing.

**Fire prevention :**

Prevent access by unauthorised personnel.

Take precautionary measures against static discharges by bonding and grounding equipment.

No smoking.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

Ensure good ventilation at the workplace

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

Do not breathe fumes, vapour, spray.

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

Store between 5°C and 40°C in a dry, well ventilated place.

Only use hydrocarbon-resistant containers, joints and pipes.

**Storage**

Keep out of reach of children.

### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m <sup>3</sup> :	VME-ppm :	VLE-mg/m <sup>3</sup> :	VLE-ppm :	Notes :
107-21-1	52	20	104	40	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-21-1	-	-	100	-	-

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
107-21-1		10 ppm 26 mg/m <sup>3</sup>		2(l)

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
107-21-1	20	52	40	104	*	84

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-21-1	20 ppm 52 mg/m <sup>3</sup>	40 ppm 104 mg/m <sup>3</sup>		Sk	

#### Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ETHYLENE GLYCOL (CAS: 107-21-1)

##### Final use:

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

##### Final use:

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

##### Workers.

Dermal contact.

Long term systemic effects.

106 mg/kg body weight/day

Inhalation.

Long term systemic effects.

35 mg of substance/m<sup>3</sup>

##### Consumers.

Dermal contact.

Long term systemic effects.

53 mg/kg body weight/day

Inhalation.

Long term systemic effects.

7 mg of substance/m<sup>3</sup>

#### Predicted no effect concentration (PNEC):

ETHYLENE GLYCOL (CAS: 107-21-1)

Environmental compartment:

PNEC :

Soil.

1.53 mg/kg

Environmental compartment:

PNEC :

Fresh water.

10 mg/l

Environmental compartment:

PNEC :

Sea water.

1 mg/l

Environmental compartment:

PNEC :

Intermittent waste water.

10 mg/l

Environmental compartment:

Fresh water sediment.

PNEC :	37 mg/kg
Environmental compartment: PNEC :	Marine sediment. 3.7 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 199.5 mg/l

## 8.2. Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.  
Personnel shall wear regularly laundered overalls.

### Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.  
Store personal protective equipment in a clean place, away from the work area.  
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.  
Use eye protectors designed to protect against liquid splashes  
Before handling, wear safety goggles in accordance with standard EN166.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.  
Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.  
Gloves must be selected according to the application and duration of use at the workstation.  
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.  
Type of gloves recommended :  
- Natural latex

Glove thickness:	0.38 mm
Break-through time:	> 480 mn

#### - Body protection

Work clothing worn by personnel shall be laundered regularly.  
After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Breathing apparatus only when aerosol or spray are formed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### Physical state

Physical state :	Fluid liquid.
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#### Colour

Color:	yellow
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#### Odour

Odour threshold :	Not stated.
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#### Melting point

Melting point/melting range :	Not relevant.
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#### Freezing point

Freezing point / Freezing range :	-38°C
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#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	Not relevant.
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#### Flammability

Flammability (solid, gas) :	Not stated.
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#### Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%) :	Not stated.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH (aqueous solution) : Not stated.

pH : 8.33 .

Slightly basic.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Soluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : 1.0733

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Keep away from heat and from sources of ignition

Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Strong oxidants

Acids

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

May cause severe damage to organs in the event of repeated or prolonged exposure.

**11.1.1. Substances****Acute toxicity :**

POTASSIUM (2-BENZOTHAZOLYL)-THIO-ACETATE

Oral route : LD50 500 mg/kg

METHYL-1H-BENZOTRIAZOLE (CAS: 29385-43-1)	
Oral route :	LD50 = 720 mg/kg Species : Rat
Dermal route :	LD50 > 2000 mg/kg Species : Rabbit
ETHYLENE GLYCOL (CAS: 107-21-1)	
Oral route :	LD50 = 1600 mg/kg Species : Cat
Dermal route :	LD50 > 3500 mg/kg Species : Rat
Inhalation route (Vapours) :	LC50 2.5 Species : Rat

**Specific target organ systemic toxicity - repeated exposure :**

ETHYLENE GLYCOL (CAS: 107-21-1)	
Oral route :	150 < C <= 300 mg/kg body weight/day Duration of exposure : 28 jours

**11.1.2. Mixture****Skin corrosion/skin irritation :**

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.

**Serious damage to eyes/eye irritation :**

Mild eye irritation

**Aspiration hazard :**

"Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons."  
May cause lung damage if swallowed

**11.2. Information on other hazards****SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Substances**

ETHYLENE GLYCOL (CAS: 107-21-1)	
Fish toxicity :	LC50 = 18000 mg/l Species : Oncorhynchus mykiss Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 100 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 < 13000 mg/l Species : Selenastrum capricornutum Duration of exposure : 96 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances**

ETHYLENE GLYCOL (CAS: 107-21-1)	
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

No data available.

#### 12.4. Mobility in soil

Water soluble  
Mobile in soil

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Endocrine disrupting properties

No data available.

#### 12.7. Other adverse effects

Do not dispose of the product in the natural environment, effluents or surface waters.

### SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

### SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

#### 14.1. UN number or ID number

-

#### 14.2. UN proper shipping name

-

#### 14.3. Transport hazard class(es)

-

#### 14.4. Packing group

-

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

-

#### 14.7. Maritime transport in bulk according to IMO instruments

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### SECTION 15: Regulatory information

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

##### - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

##### - Container information:

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

##### - Particular provisions :

No data available.

#### 15.2. Chemical safety assessment

No data available.

### SECTION 16 : OTHER INFORMATION



Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

#### Wording of the phrases mentioned in section 3 :

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child .
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.