

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

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

1.1 Product identifier

Trade name **Undercoating M40**

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

Relevant identified uses Anti-corrosion coating
Professional use

1.3 Details of the supplier of the safety data sheet

EMM International BV
Bohemienstraat 19
8028 SB Zwolle
Netherlands

Telephone: +31 38 4676600

e-mail: msds@colad.com

Website: www.colad.com

Additional information

Supplier of the product			
Country	Name	Postal code/city	Telephone
United Kingdom	Amaric Associates Ltd.	HP22 4LW Aylesbury	+44(0)7831547123

e-mail (competent person)

msds@colad.com

1.4 Emergency telephone number

Emergency information service

+ 31 38 4676600

This number is only available during the following office hours: Mon-Fri 08:00 - 17:00

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of H-phrases: see SECTION 16

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Warning

- pictograms

GHS02, GHS07,
GHS08



- hazard statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

- precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

- hazardous ingredients for labelling

Contains: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics; Low boiling point naphtha-unspecified; Hydrocarbons, C9, aromatics.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Safety Data Sheet

















acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No 927-241-2	10 – < 25	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 EUH066	  	
Hydrocarbons, C9, aromatics	EC No 918-668-5	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066	   	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC No 919-446-0	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	   	
Low boiling point naphtha-unspecified	CAS No 64742-95-6 EC No 265-199-0 Index No 649-356-00-4	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066	   	P(b)
propylene carbonate	CAS No 108-32-7 EC No 203-572-1 Index No 607-194-00-1	1 – < 3	Eye Irrit. 2 / H319		

Notes

P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 shall apply

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Recommendations**

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities**Managing of associated risks**

- explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects**Protect against external exposure, such as**

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

There is no additional information.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		DNEL	871 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		DNEL	77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		DNEL	185 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		DNEL	46 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		DNEL	46 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	330 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	570 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	71 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	570 mg/m ³	human, inhalatory	consumer (private households)	acute - systemic effects
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	12 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		DNEL	21 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics		DNEL	151 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics		DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics		DNEL	32 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics		DNEL	7.5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics		DNEL	7.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Low boiling point naphtha-unspecified	64742-95-6	DNEL	151 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Low boiling point naphtha-unspecified	64742-95-6	DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Low boiling point naphtha-unspecified	64742-95-6	DNEL	32 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Low boiling point naphtha-unspecified	64742-95-6	DNEL	7.5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Low boiling point naphtha-unspecified	64742-95-6	DNEL	7.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
propylene carbonate	108-32-7	DNEL	70.53 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
propylene carbonate	108-32-7	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
propylene carbonate	108-32-7	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
propylene carbonate	108-32-7	DNEL	17.4 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
propylene carbonate	108-32-7	DNEL	10 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
propylene carbonate	108-32-7	DNEL	10 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
propylene carbonate	108-32-7	DNEL	10 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
propylene carbonate	108-32-7	PNEC	0.9 mg/l	aquatic organisms	freshwater	short-term (single instance)

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
propylene carbonate	108-32-7	PNEC	0.09 mg/l	aquatic organisms	marine water	short-term (single instance)
propylene carbonate	108-32-7	PNEC	7,400 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
propylene carbonate	108-32-7	PNEC	0.81 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber

- material thickness

Use gloves with a minimum material thickness: ≥ 0.38 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	black
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	139 °C at 1 atm calculated value, referring to a component of the mixture
Evaporation rate	not determined
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	LEL: 0.8 vol% / UEL: 6 vol%
Flash point	36 °C
Auto-ignition temperature	>200 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	>20.5 mm ² /s at 40 °C
Dynamic viscosity	2,500 mPa s at 20 °C
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
---	-----------------------------------

Vapour pressure	30 hPa at 50 °C
-----------------	-----------------

Density and/or relative density

Density	1.03 g/cm ³ at 20 °C (DIN 51757)
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
--------------------------	-----------------------

9.2 Other information

There is no additional information.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		oral	LD50	>15,000 mg/kg	rat
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		inhalation: vapour	LC50	≥6,100 mg/m ³ /4h	rat
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		dermal	LD50	≥3,160 mg/kg	rabbit
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		oral	LD50	>15,000 mg/kg	rat

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		inhalation: vapour	LC50	>13.1 mg/l/4h	rat
Hydrocarbons, C9, aromatics		oral	LD50	7,093 mg/kg	rat
Hydrocarbons, C9, aromatics		dermal	LD50	>3,160 mg/kg	rabbit
Low boiling point naphtha-unspecified	64742-95-6	oral	LD50	7,093 mg/kg	rat
Low boiling point naphtha-unspecified	64742-95-6	dermal	LD50	>3,160 mg/kg	rabbit
propylene carbonate	108-32-7	oral	LD50	>5,000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs (central nervous system) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	central nervous system	if exposed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		LL50	>100 mg/l	fish	24 h
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		EL50	>100 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		NOELR	1 mg/l	algae	72 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		LL50	30 mg/l	fish	96 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		EL50	22 mg/l	aquatic invertebrates	48 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		ErC50	0.94 mg/l	algae	72 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		EC50	0.53 mg/l	algae	72 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		NOELR	0.3 mg/l	fish	96 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		NOEC	0.16 mg/l	algae	72 h
Hydrocarbons, C9, aromatics		LL50	9.2 mg/l	fish	96 h
Hydrocarbons, C9, aromatics		EL50	4.1 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C9, aromatics		NOEC	0.07 mg/l	algae	72 h
Hydrocarbons, C9, aromatics		NOELR	1 mg/l	algae	72 h
Low boiling point naphtha-unspecified	64742-95-6	LL50	9.2 mg/l	fish	96 h
Low boiling point naphtha-unspecified	64742-95-6	EL50	3.2 mg/l	aquatic invertebrates	48 h
Low boiling point naphtha-unspecified	64742-95-6	NOELR	1 mg/l	algae	72 h
propylene carbonate	108-32-7	LC50	>1,000 mg/l	fish	96 h
propylene carbonate	108-32-7	EC50	>1,000 mg/l	aquatic invertebrates	24 h
propylene carbonate	108-32-7	ErC50	>900 mg/l	algae	72 h
propylene carbonate	108-32-7	NOEC	1,000 mg/l	fish	96 h
propylene carbonate	108-32-7	LOEC	>1,000 mg/l	fish	96 h

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
propylene carbonate	108-32-7	growth (EbCx) 10%	>900 mg/l	algae	72 h
propylene carbonate	108-32-7	growth rate (Er-Cx) 10%	>900 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		LL50	>100 mg/l	fish	24 h
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		EL50	>100 mg/l	aquatic invertebrates	24 h
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		NOELR	0.182 mg/l	fish	28 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		LL50	100 mg/l	fish	24 h
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		EL50	1.19 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		EC50	0.328 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		NOELR	0.28 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		LOEC	0.203 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		NOEC	0.097 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		growth (EbCx) 10%	0.109 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C9, aromatics		EC50	>99 mg/l	microorganisms	10 min
Hydrocarbons, C9, aromatics		NOELR	1.228 mg/l	fish	28 d
Hydrocarbons, C9, aromatics		NOEC	>99 mg/l	microorganisms	10 min
Low boiling point naphtha-unspecified	64742-95-6	EC50	>99 mg/l	microorganisms	10 min
Low boiling point naphtha-unspecified	64742-95-6	NOEC	>99 mg/l	microorganisms	10 min
propylene carbonate	108-32-7	EC50	25,619 mg/l	microorganisms	16 h
propylene carbonate	108-32-7	growth (EbCx) 10%	7,400 mg/l	microorganisms	16 h

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

12.2 Persistence and degradability

Degradability of components					
Name of substance	CAS No	Process	Degradation rate	Time	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		oxygen depletion	8 %	3 d	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		carbon dioxide generation	0 %	3 d	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		oxygen depletion	13.8 %	4 d	
Hydrocarbons, C9, aromatics		oxygen depletion	30.9 %	2 d	
Low boiling point naphtha-unspecified	64742-95-6	oxygen depletion	30.9 %	2 d	
propylene carbonate	108-32-7	carbon dioxide generation	70.2 %	9 d	

12.3 Bioaccumulative potential

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		$\geq 6.91 - \leq 1,582$	$\geq 1.99 - \leq 5.25$	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		$\geq 30.85 - \leq 3,625$	$\geq 3.17 - \leq 6.73$ (pH value: ~7, 20 °C)	
Hydrocarbons, C9, aromatics		$\geq 30.85 - \leq 467$	$\geq 3.03 - \leq 4.73$ (pH value: ~7, 20 °C)	
Low boiling point naphtha-unspecified	64742-95-6	$\geq 30.85 - \leq 467$	$\geq 3.03 - \leq 4.73$ (pH value: ~7, 20 °C)	
propylene carbonate	108-32-7		-0.41 (20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- product

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

ADR/RID UN 1139

IMDG-Code UN 1139

ICAO-TI UN 1139

14.2 UN proper shipping name

ADR/RID COATING SOLUTION includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining

IMDG-Code COATING SOLUTION includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining

ICAO-TI Coating solution includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining

14.3 Transport hazard class(es)

ADR/RID 3

IMDG-Code 3

ICAO-TI 3

14.4 Packing group

ADR/RID III

IMDG-Code III

ICAO-TI III

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

Classification code	F1
Danger label(s)	3



Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	D/E
Hazard identification No	30
Emergency Action Code	3Y

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

Classification code	F1
Danger label(s)	3



Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	30

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	-
Danger label(s)	3



Special provisions (SP)	955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	A

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Danger label(s) 3



Special provisions (SP) A3

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
P5c	flammable liquids (cat. 2, 3)	5,000 50,000	51)

Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

None of the ingredients are listed.

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed.

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Undercoating M40	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	flammable / pyrophoric	R40	40
Hydrocarbons, C9, aromatics	flammable / pyrophoric	R40	40

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	flammable / pyrophoric	R40	40
Low boiling point naphtha-unspecified	flammable / pyrophoric	R40	40

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
 - or even sucking the wick of lamps
 - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

R40

- Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 - Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
 - By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (***)
 - The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
- (***) OJ L 147, 9.6.1975, p. 40.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Abbr.	Descriptions of used abbreviations
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H373	May cause damage to organs (central nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

Undercoating M40

Version number: 1.0

Date of compilation: 2024-01-22

Code	Text
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.