

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

SAFETY DATA SHEET

MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION

Section 1. Identification

Product name	: MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION
Product description	: Glycol
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Identified uses	: Antifreeze/coolant
Uses advised against	: This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.
Supplier	: ExxonMobil (China) Investment Co., Ltd. 17/F., Metro Tower 30 Tian Yao Qiao Road Shanghai 200030 China
24 Hour Emergency Telephone	: (+86)0532-83889090 (NRCC)
Supplier General Contact	: (+86) 400-820-6130
E-Mail	: consumerservice@mobil.com.cn
FAX	: (+86) 021-23515968
Supplier	: EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD Correspondence address: 1099 Zixing Road Minhang District SHANGHAI China
Supplier General Contact	: (+86) 400-820-6130
E-Mail	: consumerservice@mobil.com.cn
FAX	: (+86) 021-23515968
SDS Internet Address	: www.sds.exxonmobil.com

Section 2. Hazards identification

Classification of the substance or mixture is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals	
<u>Emergency overview</u>	
Physical state	: Liquid.
Colour	: Red
Odour	: Characteristic
Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. (kidneys) IF SWALLOWED: Get medical help. Get medical help if you feel unwell. If skin irritation occurs: Get medical help. If eye irritation persists: Get medical help.	

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
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First issue date	22 July 2025	Version	0.01

Section 2. Hazards identification

Classification of the substance or mixture

: ACUTE TOXICITY (oral) - Category 4
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

GHS label elements

Hazard pictograms

:

Signal word

: Warning

Hazard statements

: H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)

Precautionary statements

General

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Prevention

: P260 - Do not breathe vapour.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves. Wear eye or face protection.

Response

: P301 + P330, P317 - IF SWALLOWED: Rinse mouth. Get medical help.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P319 - Get medical help if you feel unwell.
P332 + P317 - If skin irritation occurs: Get medical help.
P337 + P317 - If eye irritation persists: Get medical help.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Physical and chemical hazards

: No known significant effects or critical hazards.

Health hazards

: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:
irritation
redness
Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

Ingestion

: No specific data.

Date of issue/Date of revision

: 22 July 2025

Date of previous issue

: No previous edition

Version

: 0.01

2/12

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 2. Hazards identification

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Environmental hazards : No known significant effects or critical hazards.

Contains : ethane-1,2-diol and potassium hydroxide

Other hazards which do not result in classification : None known.

Nota : This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
ethane-1,2-diol	≥50 - ≤75	CAS: 107-21-1
potassium hydroxide	<1	CAS: 1310-58-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

First aid

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 4. First-aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Eye contact : Causes serious eye irritation.
Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.
Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Incomplete combustion products, Oxides of carbon, Smoke, Fume

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 5. Firefighting measures

Special protective actions for fire-fighters : Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent re-ignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Material will sink. Remove material, as much as possible, using mechanical equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Precautionary measures to prevent the occurrence of secondary disasters : Prevent entry into sewers, water courses, basements or confined areas.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Date of issue / Date of revision	: 22 July 2025	Date of previous issue	: No previous edition	Version	: 0.01	5/12
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Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 7. Handling and storage

Precautions for safe handling

- Precautions for operating

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Static Accumulator

: This material is not a static accumulator.
- Conditions for safe storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ethane-1,2-diol	GBZ 2.1 (China, 7/2024) PC-TWA 8 hours: 20 mg/m³. PC-STEEL 15 minutes: 40 mg/m³. ACGIH TLV (United States, 1/2024) STEL 15 minutes: 10 mg/m³. Form: Inhalable fraction. Aerosol only. STEL 15 minutes: 50 ppm. Form: Vapor fraction. TWA 8 hours: 25 ppm. Form: Vapor fraction.
potassium hydroxide	GBZ 2.1 (China, 7/2024) MAC: 2 mg/m³. ACGIH TLV (United States, 1/2024) C: 2 mg/m³.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

- Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 8. Exposure controls/personal protection

Eye/face protection
: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection
: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): Nitrile, minimum 0.38 mm thickness or comparable protective barrier material

Body protection
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance and physical state

Physical state
: Liquid.

Colour
: Red

Odour
: Characteristic

Odour threshold
: Not available.

pH
: 8.5

Melting point/freezing point
: -45°C (-49°F)

Boiling point or initial boiling point and boiling range
: Not available.

Flash point
: Closed cup: >100°C (>212°F) [ASTM D-93]

Evaporation rate
: Not available.

Flammability
: Ignitable

Lower and upper explosion limit/flammability limit
: Not available.

Vapour pressure
: <0.1 mm Hg [20 °C]

Relative vapour density
: Not available.

Relative density
: 1.086

Solubility in water
: Complete

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

Date of issue/Date of revision	: 22 July 2025	Date of previous issue	: No previous edition	Version	: 0.01	7/12
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Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 9. Physical and chemical properties

Auto-ignition temperature

: >200°C (>392°F)

Decomposition temperature

: Not available.

Viscosity

: <5 cSt [40 °C]

Particle characteristics

Median particle size

: Not applicable.

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: High energy sources of ignition. Excessive heat.

Incompatible materials

: strong acids, Strong oxidisers

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
PD MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION	Human - Oral - LDLo 1560 mg/kg
<C potassium hydroxide	Rat - Oral - LD50 273 mg/kg

Conclusion/Summary

Inhalation

: Minimally Toxic. No end point data for material. Based on assessment of the components.

Dermal

: Minimally Toxic. No end point data for material. Based on assessment of the components.

Oral

: Moderately toxic Data available. Based on assessment of the components.

Irritation/Corrosion

Conclusion/Summary

Skin

: Irritating to the skin. No end point data for material. Based on assessment of the components.

Eyes

: Irritating and will injure eye tissue. No end point data for material. Based on assessment of the components.

Respiratory

: Negligible hazard at ambient/normal handling temperatures. No end point data for material.

Respiratory or skin sensitization

Conclusion/Summary

Skin

: Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.

Respiratory

: Not expected to be a respiratory sensitizer. No end point data for material.

Date of issue/Date of revision	: 22 July 2025	Date of previous issue	: No previous edition	Version	: 0.01	8/12
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Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 11. Toxicological information

Germ Cell Mutagenicity

Conclusion/Summary : Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.

Carcinogenicity

Conclusion/Summary : Not expected to cause cancer. No end point data for material. Based on assessment of the components.

Reproductive toxicity

Conclusion/Summary : Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.

Specific target organ toxicity (single exposure)

Conclusion/Summary : Not expected to cause organ damage from a single exposure. No end point data for material.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION	Category 2	kidneys

Conclusion/Summary : May cause damage to organs through prolonged or repeated exposure. No end point data for material. Based on assessment of the components.

Aspiration hazard

Conclusion/Summary : Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. No end point data for material.

Other information

Contains : ETHYLENE GLYCOL (EG): Repeated high oral exposure has caused kidney damage, neurological effects, degeneration of the liver and changes in blood chemistry and circulating blood cells in laboratory animals. Repeated overexposure has the potential to cause similar toxic effects in humans. EG causes developmental and reproductive effects at high dose levels in laboratory animals. The relevance of these findings to humans is uncertain.

Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

Toxicity

Conclusion/Summary

Acute toxicity : Not expected to be harmful to aquatic organisms.

Chronic toxicity : Not expected to demonstrate chronic toxicity to aquatic organisms

Persistence and degradability

Biodegradability : Material -- Expected to be readily biodegradable.

Atmospheric Oxidation : Material -- Expected to degrade rapidly in air

Bioaccumulation/Accumulation

Conclusion/Summary : Material -- Potential to bioaccumulate is low.

Mobility in soil

Mobility : Material -- Expected to remain in water or migrate through soil.

Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 12. Ecological information

Other ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 14. Transport information

	JT/T617	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media : Do not use water jet.

Incompatible materials : strong acids, Strong oxidisers

Transport in bulk according to IMO instruments : Not available.

Date of issue/Date of revision	: 22 July 2025	Date of previous issue	: No previous edition	Version	: 0.01	10/12
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Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 15. Regulatory information

The hazard classification for this material is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals

Refer to below China regulations (if applicable):

The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009)
Regulations on the Safe Management of Hazardous Chemicals
Measures for the Environmental Management Registration of New Chemical Substances

Inventory list

Australia inventory (AIC)	: All components are listed or exempted.
Canada inventory (DSL-NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Japan inventory (CSCL)	: All components are listed or exempted.
Japan inventory (Industrial Safety and Health Act)	: Not determined.
New Zealand Inventory of Chemicals (NZIoC)	: Not determined.
Philippines inventory (PICCS)	: At least one component is not listed.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
United States inventory (TSCA 8b)	: All components are active or exempted.

Section 16. Other information

History

Date of issue/Date of revision	: 22 July 2025
Date of previous issue	: No previous edition
Version	: 0.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Product code : 3510106010F0_P000000718

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Product name	MOBIL DELVAC MODERN ANTIFREEZE -45°C ARCTIC PROTECTION		
Date of revision	22 July 2025	SDS Number:	3510106010F0_P000000718
First issue date	22 July 2025	Version	0.01

Section 16. Other information

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