

SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1

Printing date: 18/09/2019 Revision date: 23/05/2022

SDS Record Number: CSSS-TCO-010-116729

1. Identification of the material and supplier

Material name: SINOPEC COOLANT YF2A

Other means of identification: -

Recommended use: Used as heat transfer medium in engine cooling system

Restrictions on use:

Manufacturer:

Supplier(Manufacturer): SINOPEC LUBRICANT CO.,LTD

Address: No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China

Contact person(E-mail): csc.lube@sinopec.com

 Telephone:
 86-800-810-9886

 Fax:
 86-10-82410856

 Emergency number:
 86-800-810-9886

Australia Supplier(Manufacturer): International Lubricant Distributors Pty. Ltd.

Address: 21 Logistics Boulevard, Kenwick, WA 6107, Australia

Contact person(E-mail):

Telephone: -

Fax: +61 8 9381 1788 **Emergency number:** 1300 558 939

New Zealand Supplier(Manufacturer): MTS ENERGY LTD

Address: PO BOX 302-133 North Harbour, Auckland 0751, New Zealand

 Telephone:
 +64 9 480 8921

 Fax:
 +64 9 480 8398

Emergency number: 0800 399 993 (24 Hrs)

2. Hazards identification

Australia:

Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

New Zealand:

Ethylene Glycol is classified as 6.1D (All), 6.1D (O), 6.4A, 6.9A (All), 6.9A (O), 9.3C according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements:

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Hazard Pictograms: :

Signal word: Warning

Hazard statement: Harmful if swallowed.

Precautionary statement:

Prevention: Wash hand thoroughly after handling.

Do not eat, drink or smoke when using this product.

Response: IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

Rinse mouth.

Storage: Not applicable.

Disposal: Dispose of contents/container in according with local regulation.

Other hazards which do not result in

classification:

Not applicable.

3. Composition/information on ingredients			
Components	CAS No.	Percent	
Additive	Mixture	<5%	
Water	7732-18-5	1-5%	
Ethylene Glycol	107-21-1	95-99%	

4. First aid measures

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in

the air, move the exposed person to fresh air. Get medical attention if coughing or

respiratory discomfort occurs.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if

contaminated. To remove the material from skin, use soap and water. Discard

contaminated clothing and shoes or thoroughly clean before reuse.

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if

worn, and flush eyes with water.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get

medical advice.

Symptoms caused by exposure: Not available.

Medical Attention and Special Treatment: Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Extinguishing media which must not be

used for safety reasons:

Water.

Specific hazards arising from the

chemical:

In case of heat, fire and strong oxidants can lead to burning. Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate, certain metal oxides and

other decomposition products, in the case of incomplete combustion.

Special protective equipment and Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive

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precautions for fire fighters:

pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid build up of vapour. Ensure sufficient supply of air. Avoid contact with eyes or skin. Contact with water - danger of sliding. Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. Evacuate all unprotected

personnel.

Environmental precautions: If le

If leakage occurs, dam up. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage

system occurs, inform responsible authorities.

Methods and materials for containment

and cleaning up:

For large spills: Remove with vacuum truck or pump to storage/salvage vessels.

For small spills: Soak up residue with an absorbent such as clay, sand or other suitable

material. Place in non-leaking container and seal tightly for proper disposal.

7. Handling and storage

Precautions for safe handling:

Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Conditions for safe storage, including any

incompatibilities:

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Storage regulation

Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well-ventilated area away from naked flames, sparks and other sources of

ignition.

8. Exposure controls/personal protection

Control parameters - exposure

Not available

standards, biological monitoring:

Exposure Levels

Occupational exposure limits:

Australia. National Workplace C	ELs (Workplace Ex	posure Standards for Airborne Con	taminants, Appendix A)
Components	Туре	Value	Form
Ethylene Glycol(CAS#107-21-1)	STEL	104 mg/m ³	-
		40 ppm	-
	TWA	10 mg/m ³	-
		20 ppm	-
Australia. OELs. (Adopted Natio	onal Exposure Stand	lards for Atmospheric Contaminant	s in the Occupational Environment)
Components	Туре	Value	Form
Ethylene Glycol(CAS#107-21-1)	STEL	104 mg/m ³	Vapor
		40 ppm	Vapor
	TWA	52 mg/m ³	Vapor

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10 mg/m ³	Particulate	
20 ppm	Vapor	

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Appropriate engineering controls: Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or

mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a

local exhaust ventilation system is required.

Personal protective equipment:

Eye/face protection: No special eye protection is normally required. Where splashing is possible, wear safety

glasses with side shields as a good safety practice.

Skin protection: No special protective clothing is normally required. Where splashing is possible, select

protective clothing depending on operations conducted physical requirements and other

substances in the workplace.

Respiratory protection: No respiratory protection is normally required. No respiratory protection is ordinarily

> required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material...If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Physical state: Liquid Form: Distinctive Color: Not available Odor: No odor Odour threshold: Not available PH: $7.5 \sim 11.0$ Melting point/Freezing point: Not available

Boiling point and boiling range: 111.0°C (typical data)

Flash point: Not available **Evaporation rate:** Not available Not available Flammability (solid, gas): Upper/lower flammability or explosive Not available

limits:

Vapor pressure: Not available Vapor density: Not available Density: 1073~1095kg/m3 Solubility (H2O): Soluble in water Not available Partition coefficient (n-octanol/water): **Auto-ignition temperature:** Not available **Decomposition temperature:** Not available

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SINOPEC

Viscosity, dynamic: Not available Specific heat value: Not available Particle size: Not available Volatile organic compounds content: Not available % volatile: Not available Not available Saturated vapour concentration: Release of invisible flammable vapours Not available

and gases:

Additional parameters

Shape and aspect ratio: Not available Not available Crystallinity: **Dustiness:** Not available Surface area: Not available Degree of aggregation or agglomeration: Not available Ionisation (redox potential): Not available Biodurability or biopersistence: Not available

10. Stability and reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: Contact with strong oxidants.

Conditions to avoid: Incompatible materials. Avoid extreme temperatures, sun exposure, and the fire source.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate,

certain metal oxides and other decomposition products, in the case of incomplete

combustion.

11. Toxicological information

Toxicological data:

Acute toxicity:

LD50(Oral, Mouse): Not available Not available LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Skin corrosion/Irritation: No data available. Serious eye damage/irritation: No data available. Respiratory or skin sensitization: No data available. Germ cell mutagenicity: No data available. Carcinogenicity: No data available. Reproductive toxicity: No data available.

STOT- single exposure: No data available. STOT-repeated exposure: No data available. Aspiration hazard: No data available.

Other information This product has no known adverse effect on human health.

Information on routes of exposure No data available. Symptoms related to exposure No data available. **Numerical measures of toxicity** No data available.

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Immediate, delayed and chronic health No data available. effects from exposure

12. Ecological information

Ecotoxicity: Ethylene Glycol(CAS#107-21-1):

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	8050 mg/l	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: This product is expected to be inherently biodegradable

Bioaccumulative potential: This product has the water solubility; but bioavailability and bioaccumulation to aquatic

organisms is minimal.

Mobility in soil: When released into the environment, adsorption to sediment and soil will be the

predominant behavior.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone

creation potential, endocrine disruption, global warming potential) are expected from this

component.

13. Disposal considerations

packaging:

Safe handling and disposal methods: Disposal of any contaminated

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Australia:

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

New Zealand:

Product Disposal

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by

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householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. Transport information

Australia:

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

New Zealand:

Not classified as Dangerous Goods for transport according to the NZS 5433:2012 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number

None Allocated

Proper Shipping Name

None Allocated

DG Class

None Allocated

Packing Group

None Allocated

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia:

Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Ethylene Glycol is classified as A according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

New Zealand:

Ethylene Glycol is classified as 6.1D (All), 6.1D (O), 6.4A, 6.9A (All), 6.9A (O), 9.3C according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Australia HVIC: Listed substance

Ethylene Glycol Listed

New Zealand Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply	Quantity beyond which controls apply	
	for closed containers	when use occurring in open containers	
Not Applicable	Not Applicable	Not Applicable	

New Zealand Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the

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personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities	
Not Applicable	Not Applicable	
Inventory status:		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Not available.
Canada	Domestic Substances List (DSL)	Not available.
Canada	Non-Domestic Substances List (NDSL)	Not available.
China	Inventory of Existing Chemical Substances in China	Not available.
	(IECSC)	
Europe	European Inventory of Existing Commercial Chemical	Not available.
	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	Not available.
Japan	Inventory of Existing and New Chemical Substances	Not available.
	(ENCS)	
Korea	Existing Chemicals List (ECL)	Not available.
New Zealand	New Zealand Inventory	Not available.
Philippines	Philippine Inventory of Chemicals and Chemical	Not available.
	Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Not available.

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other information

Indication of changes: Version 1.1

Date of preparation or review: 2022.05.23

Key abbreviations or acronyms CAS: Chemical Abstracts Service **used:** LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

MAC: maximum allowable concentration, MAC)

PC-TWA: permissible concentration-time weighted average PC-STEL: permissible concentration-short term exposure limit

reference Australia:

Standard for the Uniform Scheduling of Medicines and Poisons.

Approved criteria for classifying hazardous substances [NOHSC: 1008(2004)].

National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:

2011(2003)].

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted

carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

New Zealand:

Workplace Exposure Standards and Biological Exposure Indices

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 0906).

Assigning a hazardous substance to a group standard.

American Conference of IndustriaLHygienists (ACGIH)

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