

SAFETY DATA SHEET

POLYGARD CONCENTRATED ARCTIC SCREENWASH

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME POLYGARD CONCENTRATED ARCTIC SCREENWASH

PRODUCT NO. MIS18210
MIS18215
MIS18220

INTERNAL ID 18901

APPLICATION All purpose automotive windscreen cleaner

SUPPLIER MISWA CHEMICALS LTD
CASWELL ROAD
BRACKMILLS
NORTHAMPTON
NN4 7PW
T: +44 (0)1604 701111
F: +44 (0)1604 701120
admin@miswa.com

2 HAZARDS IDENTIFICATION

Flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION T;R23/24/25, R39/23/24/25, R10.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHANOL	200-659-6	67-56-1	10-30%	F;R11 T;R23/24/25,R39/23/24/25
PROPAN-2-OL	200-661-7	67-63-0	< 1%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. NOTE! Keep affected person away from heat, sparks and flames! Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Provide rest, warmth and fresh air. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Fire can be extinguished using: Alcohol resistant foam. Carbon dioxide (CO2). Water spray, fog or mist. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

UNUSUAL FIRE & EXPLOSION HAZARDS

May explode when heated or when exposed to flames or sparks. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. May form explosive or toxic mixtures with air. Vapour explosion and poison hazard indoors, outdoors and in sewers.

POLYGARD CONCENTRATED ARCTIC SCREENWASH

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO₂).

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing. Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear protective gloves and, in case of splashes, goggles/face shield too. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces. Take precautionary measures against static discharges. Do not smoke, use naked flames or other sources of ignition.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Clean-up personnel should use respiratory and/or liquid contact protection. Stop leak if possible without risk. DO NOT touch spilled material! Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Cover large spillage with alcohol-resistant foam. Dam and absorb spillage with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Flammable/combustible - Keep away from oxidisers, heat and flames. Take precautionary measures against static discharges. May attack some plastics, rubber and coatings.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHANOL	WEL	200 ppm	266 mg/m ³	250 ppm	333 mg/m ³	Sk
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

POLYGARD CONCENTRATED ARCTIC SCREENWASH**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid		
COLOUR	Blue		
ODOUR	Odour of alcohol Perfume scent		
PHYSICAL DATA COMMENTS	Information given concerns the concentrated solution.		
SOLUBILITY	Completely soluble in water Very soluble in: Alcohol		
BOILING POINT (°C)	Approximately 93°C 760 mm Hg	RELATIVE DENSITY	0.950-0.970 g/ml @20°C
pH-VALUE, CONC. SOLUTION	8.5-10.5	FLASH POINT (°C)	36°C CC (Closed cup).
FLAMMABILITY LIMIT - LOWER(%)	6.0 % v/v METHANOL IN AIR	FLAMMABILITY LIMIT - UPPER(%)	36.5 % v/v METHANOL IN AIR
VOLATILE ORGANIC COMPOUND (VOC)	24.0 g/litre		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

HAZARDOUS POLYMERISATION

Not relevant.

MATERIALS TO AVOID

Strong oxidising substances. Aluminium.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 5628 mg/kg (oral rat)

TOXIC CONC. - LC 50 83 mg/l/4h (inh-rat)

TOXICOLOGICAL INFORMATION

Toxicity data shown above is for pure Methanol

INHALATION

Toxic by inhalation. Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

INGESTION

Toxic: danger of very serious irreversible effects if swallowed. May cause nausea, headache, dizziness and intoxication. Ingestion of large amounts may cause headaches, nausea, vomiting, abdominal pain, drowsiness and unconsciousness. Methanol can cause blindness when ingested.

SKIN CONTACT

Toxic through skin absorption (percutaneous). Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

May cause temporary eye irritation.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin absorption.

POLYGARD CONCENTRATED ARCTIC SCREENWASH**TARGET ORGANS**

Central nervous system.

MEDICAL SYMPTOMS

If swallowed, especially in large quantities: Nausea, vomiting. Severe abdominal pain. Central nervous system depression. Blindness. Unconsciousness, possibly death.

SPECIFIC EFFECTS

Risk of long-term effects is considered to be minimal when exposed to levels below the Workplace Exposure Level. Prolonged or frequent inhalation of vapours in high concentrations may cause permanent damage to the nervous system, including the brain.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MOBILITY

The product is soluble in water.

BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

DEGRADABILITY

The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

ACUTE FISH TOXICITY

Not considered toxic to fish.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3		
PROPER SHIPPING NAME	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL, PROPAN-2-OL)		
UN NO. ROAD	1992	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR SUB CLASS	6.1	ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(D/E)	HAZARD No. (ADR)	36
ADR LABEL NO.	3 & 6.1	HAZCHEM CODE	+3W
CEFIC TEC(R) NO.	30GFT1-III	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	1992
IMDG CLASS	3	IMDG SUB CLASS	6.1
IMDG PACK GR.	III	EMS	F-E, S-D
UN NO. AIR	1992	AIR CLASS	3
AIR SUB CLASS	6.1	AIR PACK GR.	III

15 REGULATORY INFORMATION**LABELLING**

POLYGARD CONCENTRATED ARCTIC SCREENWASH

Toxic

CONTAINS

METHANOL

RISK PHRASES

R10 Flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES

S1/2 Keep locked up and out of the reach of children.

S4 Keep away from living quarters.

S13 Keep away from food, drink and animal feeding stuffs.

S27 Take off immediately all contaminated clothing.

S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

DETERGENT LABELLING

< 5% Perfumes

ENVIRONMENTAL LISTING

Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION**ISSUED BY**

HS&E Manager.

RISK PHRASES IN FULL

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R67 Vapours may cause drowsiness and dizziness.

POLYGARD CONCENTRATED ARCTIC SCREENWASH

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.