

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 1 of 10

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

MEGUIARS NO SMEAR GLASS CLEANER

SYNONYMS

PRODUCT USE

Streak free, non smear glass cleaner.

SUPPLIER

Company: Meguiar's Australia P/L
Address:
35 Slough Business Park
Holker St, Silverwater
NSW, 2128
AUSTRALIA
Telephone: (+61 2) 9737 9422
Telephone: 1800 804 182
Fax: 02 9737 9414

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

None

RISK

SAFETY

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
isopropanol	67-63-0	1-9
glycol ether, as		1-9
ethylene glycol monobutyl ether	111-76-2	
water	7732-18-5	>60

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MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 2 of 10

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS ...

Section 4 - FIRST AID MEASURES

SWALLOWED

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

EYE

If this product comes in contact with eyes:

- Wash out immediately with water.
- If irritation continues, seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 3 of 10

Section 5 - FIRE FIGHTING MEASURES ...

- foam
- dry chemical powder
- carbon dioxide

FIRE/EXPLOSION HAZARD

- Non combustible.
 - Not considered to be a significant fire risk.
 - Expansion or decomposition on heating may lead to violent rupture of containers.
 - Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
 - May emit acrid smoke.
- Decomposition may produce toxic fumes of carbon dioxide (CO₂)

FIRE INCOMPATIBILITY

None known.

HAZCHEM

None

Personal Protective Equipment

PERSONAL PROTECTION EQUIPMENT
Breathing apparatus.
Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable labelled container for waste disposal.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Limit all unnecessary personal contact.

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 4 of 10

Section 7 - HANDLING AND STORAGE ...

- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling DO NOT eat, drink or smoke.
- Always wash hands with soap and water after handling.
- Avoid physical damage to containers.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.

SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- Check all containers are clearly labelled and free from leaks.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Peak ppm	Peak mg/m ³
Australian Exposure Standards	Isopropyl alcohol	400	983	500	1,230		
Australian Exposure Standards	2-Butoxyethanol	25	121				

No data available for water as (CAS: 7732-18-5)

Not available. Refer to individual constituents.

INGREDIENT DATA

ISOPROPANOL:

TLV TWA: 200 ppm A4 [ACGIH]
TLV STEL: 400 ppm A4 [ACGIH]

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet

CHEMWATCH 4635-18

For Domestic Use Only.

Issue Date: Mon 2-May-2005

CD 2004/4 Page 5 of 10

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ...

PEL TWA: 400 ppm, 980 mg/m³ [OSHA Z1]

TLV TWA: 200 ppm; STEL: 400 ppm A4

NOTE: This substance has been classified by the ACGIH as A4 NOT classifiable as causing Cancer in humans

ES TWA: 400 ppm, 980 mg/m³; STEL: 500 ppm, 1225 mg/m³ (Under review)

OES TWA: 400 ppm, 999 mg/m³; STEL: 500 ppm, 1250 mg/m³

MAK value: 200 ppm, 500 mg/m³

MAK Category II Peak Limitation: For substances with systemic effects and with a half-life in humans of less than two hours.

Allows excursions of 2 times the MAK value, for 30 minutes (on average), four times per shift.

MAK Group C: There is no reason to fear risk of damage to the developing embryo when MAK and BAT values are observed.

MAK values, and categories and groups are those recommended within the Federal Republic of Germany

IDLH Level: 2000 ppm (lower explosive limit)

Odour Threshold Value: 3.3 ppm (detection), 7.6 ppm (recognition)

Exposure at or below the recommended TLV-TWA and STEL is thought to minimise the potential for inducing narcotic effects or significant irritation of the eyes or upper respiratory tract. It is believed, in the absence of hard evidence, that this limit also provides protection against the development of chronic health effects. The limit is intermediate to that set for ethanol, which is less toxic, and n-propyl alcohol, which is more toxic, than isopropanol.

ETHYLENE GLYCOL MONOBUTYL ETHER:

TLV TWA: 20 ppm A3 [ACGIH]

PEL TWA: 50 ppm, 240 mg/m³ (SKIN) [OSHA Z1]

TLV TWA: 20 ppm A3

CAUTION: This substance has been classified by the ACGIH as A3 Animal Carcinogen (at relatively high doses)

ES TWA: 25 ppm, 121 mg/m³ (skin) Under review

OES TWA: 25 ppm, 123 mg/m³ (skin)

Exposure limits with "skin" notation indicate that vapour and liquid may be absorbed through intact skin. Absorption by skin may readily exceed vapour inhalation exposure. Symptoms for skin absorption are the same as for inhalation. Contact with eyes and mucous membranes may also contribute to overall exposure and may also invalidate the exposure standard.

MAK value: 20 ppm, 98 mg/m³

Designated H in List of MAK values: Danger of cutaneous absorption.

Absorption of such substances through the skin can pose an incomparably larger danger of toxicity than their inhalation. To avoid health risks when handling such substances, meticulous cleaning of the skin, hair and clothing is imperative.

MAK Category II Peak Limitation: For substances with systemic effects and with a half-life in humans of less than two hours.

Allows excursions of 2 times the MAK value, for 30 minutes (on average), four times per shift.

MAK Group C: There is no reason to fear risk of damage to the developing embryo when MAK and BAT values are observed.

MAK values, and categories and groups are those recommended within the Federal Republic of Germany

Odour Threshold Value: 0.10 ppm (detection), 0.35 ppm (recognition)

IDLH Level: 700 ppm

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 6 of 10

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ...

Although rats appear to be more susceptible than other animals anaemia is not uncommon amongst humans following exposure. The TLV reflects the need to maintain exposures below levels found to cause blood changes in experimental animals. It is concluded that this limit will reduce the significant risk of irritation, haematologic effects and other systemic effects observed in humans and animals exposed to higher vapour concentrations. The toxic effects typical of some other glycol ethers (pancytopenia, testis atrophy and teratogenic effects) are not found with this substance.

WATER:

No exposure limits set by NOHSC or ACGIH

PERSONAL PROTECTION

EYE

No special equipment for minor exposure i.e. when handling small quantities.

OTHERWISE:

- Safety glasses with side shields.
- Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

HANDS/FEET

No special equipment needed when handling small quantities.

OTHERWISE: Wear chemical protective gloves, eg. PVC.

OTHER

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Barrier cream.
- Eyewash unit.

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

Substance

isopropanol

water

NEOPRENE A

NATURAL RUBBER C

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 7 of 10

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ...

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear pale blue liquid; mixes with water.

PHYSICAL PROPERTIES

Liquid.
Mixes with water.

Molecular Weight: Not applicable

Melting Range (°C): Not available

Solubility in water (g/L): Miscible

pH (1% solution): Not available

Volatile Component (%vol): Not available

Relative Vapour Density (air=1): Not available

Lower Explosive Limit (%): Not Applicable

Autoignition Temp (°C): Not available

State: Liquid

Boiling Range (°C): 82 initial

Specific Gravity (water=1): 0.97

pH (as supplied): 7.5

Vapour Pressure (kPa): Not available

Evaporation Rate: Not available

Flash Point (°C): Not Applicable

Upper Explosive Limit (%): Not Applicable

Decomposition Temp (°C): Not available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

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MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet
For Domestic Use Only.
Issue Date: Mon 2-May-2005

CHEMWATCH 4635-18

CD 2004/4 Page 8 of 10

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

(No Oral LD50, any animal species) The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (eg. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

EYE

Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

INHALED

Not normally a hazard due to non-volatile nature of product
The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

CHRONIC HEALTH EFFECTS

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

Meguiars No Smear Glass Cleaner

Not available. Refer to individual constituents.
unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances

ISOPROPANOL:

The substance is classified by IARC as Group 3:
NOT classifiable as to its carcinogenicity to humans.
Evidence of carcinogenicity may be inadequate or limited in animal testing.

continued...

MEGUIARS NO SMEAR GLASS CLEANER

ChemWatch Material Safety Data Sheet

CHEMWATCH 4635-18

For Domestic Use Only.

Issue Date: Mon 2-May-2005

CD 2004/4 Page 9 of 10

Section 11 - TOXICOLOGICAL INFORMATION ...

TOXICITY

Oral (human) LDLo: 3570 mg/kg
Oral (human) TDLo: 223 mg/kg
Oral (man) TDLo: 14432 mg/kg
Oral (rat) LD50: 5045 mg/kg
Dermal (rabbit) LD50: 12800 mg/kg

IRRITATION

Skin (rabbit): 500 mg - mild
Eye (rabbit): 10 mg - moderate
Eye (rabbit): 100mg/24hr-moderate
Eye (rabbit): 100 mg - SEVERE

ETHYLENE GLYCOL MONOBUTYL ETHER:

TOXICITY

Oral (rat) LD50: 470 mg/kg
Dermal (rabbit) LD50: 220 mg/kg
Inhalation (human) TLo: 100 ppm
Inhalation (human) TLo: 195 ppm/8h
Inhalation (rat-male) LC50: 486 ppm *
Inhalation (rat-female) LC50: 450 ppm *

IRRITATION

Skin (rabbit): 500 mg, open; mild
Eye (rabbit): 100 mg/24h-moderate
Eye (rabbit): 100 mg SEVERE

NOTE: Changes in kidney, liver, spleen and lungs are observed in animals

* [Union Carbide]

exposed to high concentrations of this substance by all routes.

WATER:

No significant acute toxicological data identified in literature search.

Section 12 - ECOLOGICAL INFORMATION

DO NOT discharge into sewer or waterways.

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle where possible
- Otherwise ensure that:
- licenced contractors dispose of the product and its container.
 - disposal occurs at a licenced facility.

Section 14 - TRANSPORTATION INFORMATION

Shipping Name:

None

Dangerous Goods Class: None

UN/NA Number: None

ADR Number: None

Packing Group: None

Additional Shipping Information:

International Transport Regulations:

IMO: None

HAZCHEM

None

continued...

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ChemWatch Material Safety Data Sheet

CHEMWATCH 4635-18

For Domestic Use Only.

Issue Date: Mon 2-May-2005

CD 2004/4 Page 10 of 10

Section 14 - TRANSPORTATION INFORMATION ...

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE

None

REGULATIONS

isopropanol (CAS: 67-63-0) is found on the following regulatory lists:

Australian Inventory of Chemical Substances (AICS)

ethylene glycol monobutyl ether (CAS: 111-76-2) is found on the following regulatory lists:

Australian Inventory of Chemical Substances (AICS)

Australian Poisons Schedule

water (CAS: 7732-18-5) is found on the following regulatory lists:

Australian Inventory of Chemical Substances (AICS)

Section 16 - OTHER INFORMATION

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