

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 1 of 11

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

MEGUIAR'S G108 - TRIM DETAILER

SYNONYMS

"Manufacturer's Code: G108"

PRODUCT USE

Trim detailer.

SUPPLIER

Company: Meguiar' s Australia Pty Ltd

Address:

35 Slough Business Park

Holker St, Silverwater

NSW, 2128

AUS

Telephone: +61 2 9737 9422

Telephone: 1800 804 182

Fax: +61 2 9737 9414

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

POISONS SCHEDULE

None

RISK

HARMFUL- May cause lung damage if swallowed.

SAFETY

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

Wear suitable protective clothing.

Use only in well ventilated areas.

Keep container in a well ventilated place.

To clean the floor and all objects contaminated by this material, use water.

Keep container tightly closed.

Keep away from food, drink and animal feeding stuffs.

Take off immediately all contaminated clothing.

In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

If swallowed, IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 2 of 11

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
polydimethylsiloxane	63148-62-9	30-50
distillates, petroleum, middle, hydrotreated	64742-46-7.	10-30
conditioners proprietary		1-5
2, 2, 4- trimethyl- 1, 3- pentanediol monoisobutyrate	25265-77-4	0.5-2

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 the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- If pain persists or recurs 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.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Foam.

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 3 of 11

Section 5 - FIRE FIGHTING MEASURES

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog - Large fires only.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

FIRE/EXPLOSION HAZARD

- Combustible.
 - Slight fire hazard when exposed to heat or flame.
 - Heating may cause expansion or decomposition leading to violent rupture of containers.
 - On combustion, may emit toxic fumes of carbon monoxide (CO).
 - May emit acrid smoke.
 - Mists containing combustible materials may be explosive.
- Other decomposition products include: carbon dioxide (CO₂) and silicon dioxide (SiO₂).

FIRE INCOMPATIBILITY

Avoid contamination with strong oxidising agents as ignition may result.

HAZCHEM: None

Personal Protective Equipment

Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

Slippery when spilt.

Remove all ignition sources.

- 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.

MAJOR SPILLS

Slippery when spilt.

Remove all ignition sources.

Minor hazard.

- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact by using protective equipment as required.
- Prevent spillage from entering drains or water ways.

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 4 of 11

Section 6 - ACCIDENTAL RELEASE MEASURES

- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- Wash area and prevent runoff into drains or waterways.
- If contamination of drains or waterways occurs, advise emergency services.

EMERGENCY RESPONSE PLANNING GUIDELINES (ERPG)

The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to one hour WITHOUT experiencing or developing

life-threatening health effects is:

polydimethylsiloxane	250 mg/m ³
distillates, petroleum, middle, hydrotreated	500 mg/m ³

irreversible or other serious effects or symptoms which could impair an individual's ability to take protective action is:

polydimethylsiloxane	50 mg/m ³
distillates, petroleum, middle, hydrotreated	400 mg/m ³

other than mild, transient adverse effects without perceiving a clearly defined odour is:

polydimethylsiloxane	30 mg/m ³
distillates, petroleum, middle, hydrotreated	60 mg/m ³

The threshold concentration below which most people will experience no appreciable risk of health effects:

polydimethylsiloxane	10 mg/m ³
distillates, petroleum, middle, hydrotreated	20 mg/m ³

American Industrial Hygiene Association (AIHA)

Ingredients considered according to the following cutoffs

Very Toxic (T+)	>= 0.1%	Toxic (T)	>= 3.0%
R50	>= 0.25%	Corrosive (C)	>= 5.0%
R51	>= 2.5%		
else	>= 10%		

where percentage is percentage of ingredient found in the mixture

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

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 5 of 11

Section 7 - HANDLING AND STORAGE

- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

SUITABLE CONTAINER

- Lined metal can, Lined metal pail/ can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

Avoid storage with oxidisers and acids.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- 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	TWA F/CC
Australia Exposure Standards	distillates, petroleum, middle, hydrotreated (Oil mist, refined mineral)		5					

The following materials had no OELs on our records

- polydimethylsiloxane: CAS:63148-62-9
- 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate: CAS:25265-77-4 CAS:77-68-9

MATERIAL DATA

None assigned. Refer to individual constituents.

INGREDIENT DATA

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE:

POLYDIMETHYLSILOXANE:

No exposure limits set by NOHSC or ACGIH.

POLYDIMETHYLSILOXANE:

DISTILLATES, PETROLEUM, MIDDLE, HYDROTREATED:

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 6 of 11

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Human exposure to oil mist alone has not been demonstrated to cause health effects except at levels above 5 mg/m³ (this applies to particulates sampled by a method that does not collect vapour). It is not advisable to apply this standard to oils containing unknown concentrations and types of additive.

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE:

PERSONAL PROTECTION

EYE

- Safety glasses with side shields; or as required,
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

Wear chemical protective gloves. eg. PVC gloves with barrier cream
Wear safety footwear.

OTHER

- Overalls.
- Eyewash unit.

RESPIRATOR

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Breathing Zone Level ppm (volume)	Maximum Protection Factor	Half- face Respirator	Full- Face Respirator
1000	10	A- AUS P	-
1000	50	-	A- AUS P
5000	50	Airline *	-
5000	100	-	A- 2 P
10000	100	-	A- 3 P
	100+		Airline**

* - Continuous Flow

** - Continuous-flow or positive pressure demand.

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

Use in a well-ventilated area.

General exhaust is adequate under normal operating conditions. If risk of overexposure

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 7 of 11

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Creamy homogenous gel with a sweet odour; 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): >1

Lower Explosive Limit (%): Not Available

Autoignition Temp (°C): Not Available

State: Liquid

Boiling Range (°C): 100

Specific Gravity (water=1): 1.00

pH (as supplied): 8.0

Vapour Pressure (kPa): 3.19 @ 21C

Evaporation Rate: <1

Flash Point (°C): 100

Upper Explosive Limit (%): Not Available

Decomposition Temp (°C): Not Available

Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Considered an unlikely route of entry in commercial/industrial environments.

The liquid is discomforting to the gastro-intestinal tract and may be harmful if swallowed in large quantity.

Ingestion may result in nausea, abdominal irritation, pain and vomiting.

EYE

The liquid is highly discomforting to the eyes and is capable of causing a mild, temporary redness of the conjunctiva (similar to wind-burn), temporary impairment of vision and/ or other transient eye damage/ ulceration.

The vapour is mildly discomforting to the eyes.

The material may be irritating to the eye, with prolonged contact causing inflammation.

Repeated or prolonged exposure to irritants may produce conjunctivitis.

SKIN

The liquid is mildly discomforting to the skin and is capable of causing skin reactions which may lead to dermatitis.

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 8 of 11

Section 11 - TOXICOLOGICAL INFORMATION

Toxic effects may result from skin absorption.
The material may accentuate any pre-existing skin condition.

INHALED

Not normally a hazard due to non-volatile nature of product.
The vapour is discomforting to the upper respiratory tract and lungs.
Inhalation of vapour is more likely at higher than normal temperatures.
Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea.

CHRONIC HEALTH EFFECTS

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures.
Prolonged or continuous skin contact with the liquid may cause defatting with drying, cracking, irritation and dermatitis following.
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.

TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

POLYDIMETHYLSILOXANE:

TOXICITY

Inhalation (rat) LC50: >1100 mg/m³*

Oral (rat) LD50: >35000 mg/kg*

Dermal (rabbit) LD50: >3000 mg/kg*

The material may be irritating to the eye, with prolonged contact causing inflammation.

Repeated or prolonged exposure to irritants may produce conjunctivitis.

No toxic response noted during 90 day subchronic inhalation toxicity studies

The no observable effect level is 450 mg/m³.

Non-irritating and non-sensitising in human patch test. [Xerox]*

IRRITATION

Eye (rabbit): 100 mg/1h - Mild

DISTILLATES, PETROLEUM, MIDDLE, HYDROTREATED:

TOXICITY

typical for isoparaffinic hydrocarbons:

Inhalation (rat) LC50: 3400 ppm/4H None reported

IRRITATION

[EXXON]

Oral (rat) LD50

: >8000 mg/kg

[CCINFO-Shell]

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE:

TOXICITY

Oral (rat) LD50: 3200 mg/kg

Oral (rat) LD50: 3200 mg/kg ***

Dermal (rabbit) LD50: > 16 ml/kg *

Dermal (g.pig) LD50: >16 ml/kg ***

Inhalation (rat) LC50: >3.55 mg/l/6h

Inhalation (rat) LC50: 1600 mg/kg ***

Skin sensitisation (guinea pig): none. *

Not a skin sensitiser (guinea pig, Magnusson-Kligman) ***

Ames Test: negative ***

Micronucleus, mouse: negative ***

Not mutagenic ***

IRRITATION

Skin - Slight Irritant *

Skin (rabbit): Mild ***

Eyes - Moderate Irritant *

Eye (rabbit): Mild ***

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 9 of 11

Section 11 - TOXICOLOGICAL INFORMATION

No effects on fertility or foetal development seen in the rat ***

* [SWIFT]

** [Eastman]

*** [Perstop]

Section 12 - ECOLOGICAL INFORMATION

No data for Meguiar's G108 - Trim Detailer.

Refer to data for ingredients, which follows:

POLYDIMETHYLSILOXANE:

Fish LC50 (96hr.) (mg/l): 10000

2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE:

log Kow 3.54

Potential for bioaccumulation but not considered as significant due to ready biodegradability.

Degradation

BOD28/ ThOD 88.7% (Test method) OECD 301 C

Readily biodegradable

Atmospheric residence time: T(OH)=403 hrs.

Ecotoxicology:

Aquatic toxicity:

Fish LC50 (96 h): fathead minnow, 33 mg/l, NOEC: 16mg/l

sideswimmer, >95 mg/l (highest concentration tested)

Fish LC50 (96 h): oncorhynchus mykiss, >19 mg/l *

Daphnia magna EC50, (48 h): >19 mg/l *

Chaetgammarus marinus EC50 (96 h): 40 mg/l (seawater, 15 C.) *

Algae EC50 (72 h): 15 mg/l *

Daphnia EC50 (48h): 147.8 mg/l, NOEC: 28.4 mg/l

Pill bug LC50 (96h): >95 mg/l (highest concentration tested)

Flatworm LC50 (96h): 38 mg/l, NOEC: 9.5 mg/l

Aquatic earthworm LC50 (96 h): 30.4 mg/l, NOEC: 9.5 mg/l

Ramshorn snail LC50 (96h): >95 mg/l (highest concentration tested)

Selenastrum capricornutum EC50 (72 h): 18.4 mg/l

COD: 2.2 g/g

BOD: 2.4 g/g

Eastman

* Perstop

WGK=1 (weakly water endangering)

WGK: Classification in accordance with German Water Resources Act.

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92

CD 2006/4 Page 10 of 11

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA,
IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

REGULATIONS

polydimethylsiloxane (CAS: 63148-62-9) is found on the following regulatory lists;

Australia - Australia New Zealand Food Standards Code - Food Additives - Schedule 2
Miscellaneous additives permitted in accordance with GMP in processed foods specified in
Schedule 1

Australia - Australia New Zealand Food Standards Code - Processing Aids - Permitted
antifoam agents

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule
4

IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances

OECD Representative List of High Production Volume (HPV) Chemicals

distillates, petroleum, middle, hydrotreated (CAS: 64742-46-7) is found on the following
regulatory lists;

Australia Exposure Standards

Australia High Volume Industrial Chemical List (HVICL)

Australia Inventory of Chemical Substances (AICS)

Australia Poisons Schedule

International Council of Chemical Associations (ICCA) - High Production Volume List

OECD Representative List of High Production Volume (HPV) Chemicals

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (CAS: 25265-77-4) is found on the
following regulatory lists;

Australia High Volume Industrial Chemical List (HVICL)

Australia Inventory of Chemical Substances (AICS)

IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk

OECD Representative List of High Production Volume (HPV) Chemicals

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (CAS: 77-68-9) is found on the following
regulatory lists;

Australia Inventory of Chemical Substances (AICS)

Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
2, 2, 4- trimethyl- 1, 3- pentanediol monoisobutyrate	25265- 77- 4, 77- 68- 9

continued...

MEGUIAR'S G108 - TRIM DETAILER

Chemwatch Material Safety Data Sheet

Issue Date: 3-Jan-2007

NA317EC

CHEMWATCH 4804-92
CD 2006/4 Page 11 of 11
Section 16 - OTHER INFORMATION

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