

CHEMTECH SHIELD PROTECTANT - VANILLA

Chemwatch Independent Material Safety Data Sheet
Issue Date: 15-Mar-2011
C9317EC

CHEMWATCH 16-9665
Version No:2.0
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Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

CHEMTECH SHIELD PROTECTANT - VANILLA

SYNONYMS

"Product Code: SPV"

PRODUCT USE

Vinyl protectant and rejuvenator.

SUPPLIER

Company: ITW AAMTech

Address:

100 Hassall Street

Wetherill Park

NSW, 2164

Australia

Telephone: +61 2 9828 0900

Emergency Tel: **1800 039 008 (24 hours)**

Emergency Tel: **+61 3 9573 3112 (24 hours)**

Fax: +61 2 9725 4698

Company: Wynn' s New Zealand

Address:

Unit 2, 38 Trugood Drive

East Tamaki

Auckland, 2013

New Zealand

Telephone: +64 9272 1940

Emergency Tel: **+800 2436 2255 (24hours)**

Emergency Tel: **+613 9573 3112 (24hours)**

Fax: +64 9272 1949

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

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

RISK

•None under normal operating conditions.

SAFETY

Safety Codes

S24

S39

S26

Safety Phrases

• Avoid contact with skin.

• Wear eye/face protection.

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
poly(dimethyl siloxane)	9016-00-6	10-30
dipropylene glycol monomethyl ether	34590-94-8	0-9.99
propylene glycol	57-55-6	0-9.99
glycerol	56-81-5	0-9.99
ingredients determined to be non- hazardous		N/S

Section 4 - FIRST AID MEASURES

SWALLOWED

• Immediately give a glass of water.

• First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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.

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Section 4 - FIRST AID MEASURES

- Seek medical attention without delay; 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 contact occurs:
 - Immediately remove all contaminated clothing, including footwear.
 - 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

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

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).
- Decomposes on heating and produces toxic fumes of: carbon dioxide (CO₂), silicon dioxide (SiO₂).

FIRE INCOMPATIBILITY

- None known.

HAZCHEM

None

Personal Protective Equipment

Gloves, boots (chemical resistant).

Section 6 - ACCIDENTAL RELEASE MEASURES

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.

MAJOR SPILLS

- 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.

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

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Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

SUITABLE CONTAINER

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

STORAGE INCOMPATIBILITY

- None known.

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.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³	Notes
Australia Exposure Standards	dipropylene glycol monomethyl ether ((2-Methoxymethylethoxy) propanol)	50	308	Sk
Australia Exposure Standards	propylene glycol (Propane-1, 2- diol: particulates only)		10	
Australia Exposure Standards	propylene glycol (Propane-1, 2- diol total: (vapour & particulates))	150	474	
Australia Exposure Standards	glycerol (Glycerin mist (a))		10	(see Chapter 14)

The following materials had no OELs on our records

- poly(dimethyl siloxane): CAS:9016- 00- 6

PERSONAL PROTECTION

RESPIRATOR

Type A-P Filter of sufficient capacity

EYE

- No special equipment for minor exposure i.e. when handling small quantities.
- OTHERWISE:
- Safety glasses with side shields.

HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.

OTHER

- No special equipment needed when handling small quantities.
- OTHERWISE:
- Overalls.
- Barrier cream.
- Eyewash unit.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

- General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

White water thin liquid with a vanilla odour; mixes with water.

PHYSICAL PROPERTIES

Liquid.
Mixes with water.

State	Liquid	Molecular Weight	Not Applicable
Melting Range (°C)	Not Available	Viscosity	Not Available
Boiling Range (°C)	> 100	Solubility in water (g/L)	Miscible
Flash Point (°C)	Not Applicable	pH (1% solution)	Not Available
Decomposition Temp (°C)	Not Available	pH (as supplied)	~ 8.0
Autoignition Temp (°C)	Not Available	Vapour Pressure (kPa)	Not Available
Upper Explosive Limit (%)	Not Applicable	Specific Gravity (water=1)	~ 1.00
Lower Explosive Limit (%)	Not Applicable	Relative Vapour Density (air=1)	Not Available
Volatile Component (%vol)	Not Available	Evaporation Rate	Same as water
propylene glycol			
log Kow (Prager 1995):		- 0.92	
log Kow (Sangster 1997):		- 0.92	
glycerol			
log Kow (Sangster 1997):		- 1.76	

Section 10 - STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Product is considered stable and hazardous polymerisation will not occur.
For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

- May produce discomfort of the eyes and skin*.
- * (limited evidence).

CHRONIC HEALTH EFFECTS

- Generally not applicable.

TOXICITY AND IRRITATION

- unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

CHEMTECH SHIELD PROTECTANT - VANILLA:

- Not available. Refer to individual constituents.

POLY(DIMETHYL SILOXANE):

TOXICITY

IRRITATION

Eye (rabbit): 100 mg/1h - mild.

- For siloxanes:

Effects which based on the reviewed literature do not seem to be problematic are acute toxicity, irritant effects, sensitization and genotoxicity.

Some studies indicate that some of the siloxanes may have endocrine disrupting properties, and reproductive effects have caused concern about the possible effects of the siloxanes on humans and the environment.

Only few siloxanes are described in the literature with regard to health effects, and it is therefore not possible to make broad conclusions and comparisons of the toxicity related to short-chained linear and cyclic siloxanes based on the present evaluation.

Data are primarily found on the cyclic siloxanes D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) and the short-linear HMDS (hexamethyldisiloxane).

NOTE: Tumorigenic in rats : Neoplastic by RTECS criteria.

Product subject to review for use in body implants

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Section 11 - TOXICOLOGICAL INFORMATION

DIPROPYLENE GLYCOL MONOMETHYL ETHER:

TOXICITY

Oral (rat) LD50: 5135 mg/kg

Dermal (Rabbit) LD50: 9500 mg/kg

IRRITATION

Eye (human): 8 mg - Mild

Skin (rabbit): 238 mg - Mild

Eye (rabbit): 500 mg/24hr - Mild

Skin (rabbit): 500 mg (open)- Mild

■ Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

for propylene glycol ethers (PGEs):

Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB);

dipropylene glycol methyl ether acetate (DPMA); tripropylene glycol methyl ether (TPM).

Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

PROPYLENE GLYCOL:

TOXICITY

Oral (rat) LD50: 20000 mg/kg

Dermal (rabbit) LD50: 20800 mg/kg

Dermal (rabbit) LD50: 11890 mg/kg

IRRITATION

Skin(human):500 mg/7days Mild

Skin(human):104 mg/3d Intermit Moderate

Eye (rabbit): 100 mg - Mild

Eye (rabbit): 500 mg/24h - Mild

■ The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis.

GLYCEROL:

TOXICITY

Oral (Rat) LD50: 12600 mg/kg

Oral (Guinea pig) LD50: 7750 mg/kg

Oral (Human) TDLo: 1428 mg/kg

Intraperitoneal (Rat) LD50: 4420 mg/kg

Subcutaneous (Rat) LD50: 100 mg/kg

Intravenous (Rat) LD50: 5566 mg/kg

Oral (Mouse) LD50: 4090 mg/kg

Intraperitoneal (Mouse) LD50: 8700 mg/kg

Subcutaneous (Mouse) LD50: 91 mg/kg

Intravenous (Mouse) LD50: 4250 mg/kg

■ For glycerol:

Acute toxicity: Glycerol is of a low order of acute oral and dermal toxicity with LD50 values in excess of 4000 mg/kg bw. At very high dose levels, the signs of toxicity include tremor and hyperaemia of the gastro-intestinal tract.

IRRITATION

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Ingredient

Persistence:

Persistence: Air

Bioaccumulation

Mobility

Water/Soil

HIGH

LOW

HIGH

dipropylene glycol monomethyl ether

LOW

LOW

HIGH

propylene glycol glycerol

LOW

LOW

HIGH

Section 13 - DISPOSAL CONSIDERATIONS

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

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Section 14 - TRANSPORTATION INFORMATION

HAZCHEM:

None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, UN, IATA, IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE None

REGULATIONS

Regulations for ingredients

dipropylene glycol monomethyl ether (CAS: 34590-94-8,12002-25-4,112388-78-0,104512-57-4,83730-60-3,112-28-7,13429-07-7,20324-32-7,13588-28-8,55956-21-3) is found on the following

regulatory lists;

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD Representative List of High Production Volume (HPV) Chemicals"

propylene glycol (CAS: 57-55-6) is found on the following regulatory lists;

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD Representative List of High Production Volume (HPV) Chemicals"

glycerol (CAS: 56-81-5) is found on the following regulatory lists;

"Australia Exposure Standards", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Therapeutic Goods Administration (TGA) Substances that may be used as active ingredients in Listed medicines", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "International Council of Chemical Associations (ICCA) - High Production Volume List", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for Chemtech Shield Protectant - Vanilla (CW: 16-9665)

Section 16 - OTHER INFORMATION

ND

Substance	CAS	Suggested codes
dipropylene glycol monomethyl ether	112- 28- 7	R52/53
dipropylene glycol monomethyl ether	13429- 07- 7	Xn; R22
dipropylene glycol monomethyl ether	20324- 32- 7	Xn; R22

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
dipropylene glycol monomethyl ether	34590- 94- 8, 12002- 25- 4, 112388- 78- 0, 104512- 57- 4, 83730- 60- 3, 112- 28- 7, 13429- 07- 7, 20324- 32- 7, 13588- 28- 8, 55956- 21- 3

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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This is the end of the MSDS.