



SAFETY DATA SHEET

1. Identification

Product identifier NIX DERMAL CREAM

Other means of identification

Synonyms

NIX DERMAL CREAM 5% (CANADA) * NIX DERMAL CREME POUR LA PEAU 5% * NIX CREAM * LOTRIX CREAM * LOXAZOL HYDROFIELE CREME * LYCLEAR CREAM * LYCLEAR DERMAL CREAM * ZALVOR CREAM * PERMETHRIN, FORMULATED PRODUCT

Recommended use of the chemical and restrictions on use

Recommended use Medicinal Product

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to medicinal use of the product. In this instance patients should consult prescribing information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.

Restrictions on use No other uses are advised.

Details of manufacturer or importer

Manufacturer

GlaxoSmithKline Australia
1061 Mountain Highway
Melbourne, Victoria 3155
Australia
Australia General Information (Normal Business Hours): (03) 9721 6000

TRANSPORTATION EMERGENCY NUMBERS
(available 24hrs/7days: multi-language response)
Australia Toll Free +(61) 2 9037 2994
International Toll Call +(1) 703 527 3887

2. Hazard(s) identification

Classification of the hazardous chemical

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Label elements, including precautionary statements

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Other hazards which do not result in classification

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
PERMETHRIN M-PHENOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE META-PHENOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-CYCLOPROPANECARBOXYLI C ACID (3-PHENOXYPHENYL)METHYL ESTER 3-PHENOXYBENZYL 2-(2,2-DICHLOROVINYL)-3,3-DIMETHYLCYCLOPROPANE CARBOXYLATE 3-PHENOXYBENZYL 2,2-DIMETHYL-3-(2,2-DICHLOROVINYL)CYCLOPROPANE CARBOXYLATE 3-PHENOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANE CARBOXYLATE CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL)METHYL ESTER M-METHOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANE CARBOXYLATE META-METHOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANE CARBOXYLATE (3-PHENOXYPHENYL)METHYL (+/-)-CIS, TRANS-3-(2,2-DICHLOROETHENYL)-2, 2-DIMETHYLCYCLOPROPANECARBOXYLATE 3-(2,2-DICHLOROVINYL)-2,2-DIMÉTHYLCYCLOPROPANECARBOXYLATE DE M-PHÉNOXYBENZYLE 3-(2,2-DICLOROVINIL)-2,2-DIMETILCICLOPROPANCARBOSILATO DI M-FENOSSIBENZILE 3-(2,2-DICLOROVINIL)-2,2-DIMETILCICLOPROPANOCARBOXILATO DE M-FENOXIBENCILO 3-(2,2-DICLOROVINIL)-2,2-DIMETILCICLOPROPANOCARBOXILATO DE M-FENOXIBENZILO PERMETHRIN PERMETRIINI PERMETRIN PERMETRINA PERMETRINE PERMÉTHRINE M-FENOXYBENZYL-3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPA NANECARBOXYLATE M-FENOXYBENZYL-3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPA NCARBOXYLAT	52645-53-1	5
GLYCERYL MONOSTEARATE OCTADECANOIC ACID, MONOESTER WITH 1,2,3-PROPANETRIOL GLYCEROL MONOSTEARATE STEARIC ACID MONOGLYCERIDE STEARIC MONOGLYCERIDE CEFATIN	31566-31-1	4.0 - 5.0
GLYCERIN Glycerol GLYCERIN ANHYDROUS Glycerine GLYCERITOL GLYCYL ALCOHOL 1,2,3-Propanetriol PROPANETRIOL GLYROL GLYSANIN TRIHYDROXYPROPANE 1,2,3-TRIHYDROXYPROPANE OSMOGLYN	56-81-5	2

POLYOXYETHYLENE (20) SORBITAN MONOOLEATE	9005-65-6	<1.0
HEXAETHYLENE GLYCOL SORBITAN MONOOLEATE		
TWEEN 81		
OHS40200		
RTECS WG2932500		
(Z)-MONO-9-OCTADECENOATE SORBITAN, POLY(OXY-1,2-ETHANEDIYL)		
DERIVS.		
SORBITAN, MONOOLEATE, POLYOXYETHYLENE DERVS.		
ETHOXYLATED SORBITAN MONOOLEATE		
POLYOXYETHYLENESORBITAN OLEATE		
POLYSORBATE 80		
SORBITAN MONOOLEATE		
TWEEN 80		
ETHYLENE OXIDE-SORBITAN MONOOLEATE POLYMER		
FORMALDEHYDE 35% SOLUTION	50-00-0	<0.3
FORMALIN		
FORMIC ALDEHYDE		
FORMALIN, (METHANOL-FREE)		
METHANAL		
METHYL ALDEHYDE		
METHYLENE GLYCOL		
METHYLENE OXIDE		
TETRAOXYMETHYLENE		
OXOMETHANE		
OXYMETHYLENE		
METHALDEHYDE		
PARAFFIN OIL	8012-95-1	0.1 - 0.2
LIQUID PARAFFIN		
MINERAL OIL		
WHITE LIQUID PARAFFIN		
LIQUID PETROLATUM		
HEAVY MINERAL OIL		
White mineral oil		
Paraffin oils		
OHS17993		
RTECS PY8030000		
AGUARRÁS MINERAL (VARSOL)		
MINERAL SOLVENT (VARSOL)		
NIEBLAS DE ACEITES MINERALES		
OIL MIST (MINERAL OIL)		
OIL MIST (MINERAL)		
OIL, MIST		
ÖLJYSUMU		
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	<0.1
BUTYLATED HYDROXYTOLUENE		
4-METHYL-2,6-DI-TERT-BUTYLPHENOL		
BUTYLHYDROXYTOLUENE		
DIBUTYLATED HYDROXYTOLUENE		
2,6-DI-TERT-BUTYL-1-HYDROXY-4-METHYLBENZENE		
3,5-DI-TERT-BUTYL-4-HYDROXYTOLUENE		
2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYLPHENOL		
2,6-DI-TERT-BUTYL-4-METHYLPHENOL		
2,6-TERT-BUTYL-4-METHYLPHENOL		
2,6-DI-TERT-BUTYL-PARA-CRESOL		
SODIUM HYDROXIDE	1310-73-2	<0.1
CAUSTIC SODA		
SODIUM HYDRATE		
Other components below reportable levels		70.0 - 80.0

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Call a physician if symptoms develop or persist. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Personal protection for first-aid responders	Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.
Symptoms caused by exposure	Direct contact with eyes may cause temporary irritation. The possible consequences of overexposure include: symptoms similar to alcohol intoxication, symptoms of hypersensitivity (such as skin rash, hives, itching).
Medical attention and special treatment	No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the local poison control information centre.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None known.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Hazchem Code Not available.

General fire hazards Expected to be non-combustible.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Provide adequate ventilation. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

GSK

Components

Type

Value

PERMETHRIN (CAS 52645-53-1)

8 HR TWA

200 mcg/m3

OHC

2

POLYOXYETHYLENE (20)
SORBITAN MONOOLEATE
(CAS 9005-65-6)

OHC

1

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components

Type

Value

Form

2,6-DI-TERT-BUTYL-P-CR
ESOL (CAS 128-37-0)

TWA

10 mg/m3

FORMALDEHYDE 35%
SOLUTION (CAS 50-00-0)

STEL

2.5 mg/m3

TWA

2 ppm

1.2 mg/m3

1 ppm

GLYCERIN (CAS 56-81-5)

TWA

10 mg/m3

Inhalable mist.

GLYCERYL
MONOSTEARATE (CAS 31566-31-1)

TWA

10 mg/m3

Inhalable dust.

SODIUM HYDROXIDE
(CAS 1310-73-2)

Ceiling

2 mg/m3

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components

Type

Value

Form

2,6-DI-TERT-BUTYL-P-CR
ESOL (CAS 128-37-0)

TWA

10 mg/m3

FORMALDEHYDE 35%
SOLUTION (CAS 50-00-0)

STEL

2.5 mg/m3

TWA

2 ppm

1.2 mg/m3

1 ppm

GLYCERIN (CAS 56-81-5)

TWA

10 mg/m3

Inspirable dust.

GLYCERYL
MONOSTEARATE (CAS 31566-31-1)

TWA

10 mg/m3

Inspirable dust.

PARAFFIN OIL (CAS 8012-95-1)

TWA

5 mg/m3

Mist.

US. ACGIH Threshold Limit Values

Components

Type

Value

Form

2,6-DI-TERT-BUTYL-P-CR
ESOL (CAS 128-37-0)

TWA

2 mg/m3

Inhalable fraction and vapor.

FORMALDEHYDE 35%
SOLUTION (CAS 50-00-0)

Ceiling

0.3 ppm

GLYCERYL
MONOSTEARATE (CAS 31566-31-1)

TWA

10 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
PARAFFIN OIL (CAS 8012-95-1)	TWA	5 mg/m3	Inhalable fraction.
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CR ESOL (CAS 128-37-0)	TWA	10 mg/m3	
FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)	STEL	2.5 mg/m3	
	TWA	2 ppm 2.5 mg/m3 2 ppm	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Mist.
SODIUM HYDROXIDE (CAS 1310-73-2)	STEL	2 mg/m3	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
2,6-DI-TERT-BUTYL-P-CR ESOL (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.
FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)	TWA	0.37 mg/m3	
		0.3 ppm	
GLYCERIN (CAS 56-81-5)	TWA	50 mg/m3	Inhalable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment.

Individual protection measures, for example personal protective equipment (PPE)**Eye/face protection**

Not normally needed.

Skin protection**Hand protection**

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.

Other

Not normally needed.

Respiratory protection

No personal respiratory protective equipment normally required.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

For advice on suitable monitoring methods, seek guidance from a qualified environment, health and safety professional. An occupational/industrial hygiene monitoring method has been developed for this material.

9. Physical and chemical properties**Appearance**

Physical state	Liquid.
Form	Cream.
Colour	Not available.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit – upper (%) Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on possible routes of exposure

Ingestion May be harmful if swallowed. Do not ingest. Health injuries are not known or expected under normal use.

Inhalation Health injuries are not known or expected under normal use.

Skin contact May be irritating to the skin. Health injuries are not known or expected under normal use.

Eye contact Direct contact with eyes may cause temporary irritation. Health injuries are not known or expected under normal use. May be irritating to eyes. Avoid contact with eyes.

Symptoms related to exposure Direct contact with eyes may cause temporary irritation. The possible consequences of overexposure include: symptoms similar to alcohol intoxication, symptoms of hypersensitivity (such as skin rash, hives, itching).

Acute toxicity May be harmful if swallowed. Health injuries are not known or expected under normal use.

Components	Species	Test results
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2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)		
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Acute		
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<i>Oral</i>		
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LD50		
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	Rat	
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		890 mg/kg
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Components	Species	Test results
GLYCERIN (CAS 56-81-5)		
Acute		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
GLYCERYL MONOSTEARATE (CAS 31566-31-1)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
PARAFFIN OIL (CAS 8012-95-1)		
Acute		
<i>Oral</i>		
LD50	Mouse	22 g/kg
SODIUM HYDROXIDE (CAS 1310-73-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1350 mg/kg
<i>Oral</i>		
LD50	Rat	104 - 340 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	May be irritating to the skin. Health injuries are not known or expected under normal use.
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation. May be irritating to eyes. Health injuries are not known or expected under normal use.

Respiratory or skin sensitisation

ACGIH sensitisation

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0) Sensitiser.

Respiratory sensitisation Health injuries are not known or expected under normal use.

Skin sensitisation Health injuries are not known or expected under normal use.

Germ cell mutagenicity Health injuries are not known or expected under normal use.

Carcinogenicity Health injuries are not known or expected under normal use. Contains a material (formaldehyde 35% solution) classified as a carcinogen by external agencies.

ACGIH Carcinogens

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	A4 Not classifiable as a human carcinogen.
FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)	A2 Suspected human carcinogen.
GLYCERYL MONOSTEARATE (CAS 31566-31-1)	A4 Not classifiable as a human carcinogen.
PARAFFIN OIL (CAS 8012-95-1)	A2 Suspected human carcinogen.
	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)	3 Not classifiable as to carcinogenicity to humans.
FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)	1 Carcinogenic to humans.
PERMETHRIN (CAS 52645-53-1)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Health injuries are not known or expected under normal use.

Specific target organ toxicity - single exposure None known.

Specific target organ toxicity - repeated exposure None known.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity The product contains a substance which may cause long-term adverse effects in the environment.

Components		Species	Test results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	1.44 mg/l, 48 hours Static test
Fish	EC50	Orange-red killfish (Adult Oryzias latipes)	5.3 mg/l, 48 hours Static test
PERMETHRIN (CAS 52645-53-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Green algae (Scenedesmus subspicatus)	> 1.9 mcg/l, 72 hours Measured
	NOEC	Algae	1.9 mcg/l
Crustacea	EC50	Water flea (Daphnia magna)	1.25 mcg/l, 48 hours Static test
Fish	EC50	Bluegill sunfish (Adult Lepomis macrochirus)	0.79 mcg/l, 96 hours Flow-through test
		Fathead minnow (Adult Pimephales promelas)	3 mcg/l, 96 hours Static renewal test
		Rainbow trout (Adult Oncorhyncus mykiss)	0.62 mcg/l, 96 hours Flow-through test
Microtox	EC50	Microtox	0.56 mg/l, 5 minutes
<i>Chronic</i>			
Fish	Growth test LOEC	Fathead minnow (Juvenile Pimephales promelas)	1.4 mcg/l, 32 days Flow-through test
	Growth test NOEC	Fish	0.66 mcg/l, 32 days
POLYOXYETHYLENE (20) SORBITAN MONOOLEATE (CAS 9005-65-6)			
Aquatic			
<i>Acute</i>			
Fish	EC50	Rainbow trout (Juvenile Oncorhyncus mykiss)	471 mg/l, 96 hours
SODIUM HYDROXIDE (CAS 1310-73-2)			
Aquatic			
<i>Acute</i>			
Fish	EC50	Mosquito fish (Adult Gambusia affinis)	125 mg/l, 96 hours Static test
		Rainbow trout (Adult Oncorhyncus mykiss)	45.4 mg/l, 96 hours Static test

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Photolysis

Half-life (Photolysis-aqueous)

PERMETHRIN 33 Days Estimated

Half-life (Photolysis-atmospheric)

PERMETHRIN 9.8 Hours Estimated

Half-life (Photolysis-soil)

PERMETHRIN 30 Days Estimated

Hydrolysis

Half-life (Hydrolysis-basic)

PERMETHRIN 50 Days

Biodegradability

Percent degradation (Aerobic biodegradation-inherent)

PERMETHRIN 50 - 85 %, 28 days, Lake water

Percent degradation (Aerobic biodegradation-ready)

2,6-DI-TERT-BUTYL-P-CRESOL 4.5 %, 28 days Modified MITI test, Activated sludge

Biodegradability**Percent degradation (Aerobic biodegradation-ready)**

2,6-DI-TERT-BUTYL-P-CRESOL < 10 %, 20 Days Closed Bottle test, Residential sludge
POLYOXYETHYLENE (20) SORBITAN MONOOLEATE 52 %

Percent degradation (Aerobic biodegradation-soil)

PERMETHRIN > 50 %, 28 days

Bioaccumulative potential**Partition coefficient****n-octanol / water (log Kow)**

FORMALDEHYDE 35% SOLUTION 0.35
GLYCERIN -1.76
PERMETHRIN 6.5

**Bioconcentration factor
(BCF)**

2,6-DI-TERT-BUTYL-P-CRESOL 230 - 2500 Measured, Cyprinus carpio, carp
PERMETHRIN 2800 Measured, Pimephales promelas, fathead minnow

Mobility in soil Not available.

Adsorption**Soil/sediment sorption - log Koc**

PERMETHRIN 4.02 - 4.93 Measured

Volatility**Henry's law**

2,6-DI-TERT-BUTYL-P-CRESOL 0.000004, 25 Estimated
PERMETHRIN 0 atm m³/mol, 25 C Estimated

Other adverse effects Not available.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information**IATA**

UN number 3082
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (NIX DERMAL CREAM (CONTAINING PERMETHRIN))
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Packing group III
Environmental hazards No.
ERG Code 9L
Special precautions for user Not available.
Other information
Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

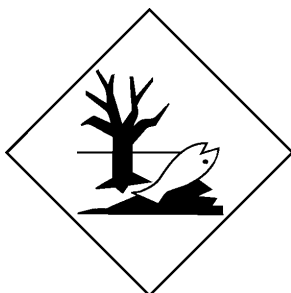
IMDG

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NIX DERMAL CREAM (CONTAINING PERMETHRIN))

Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.
IATA; IMDG	



Marine pollutant



General information

Classifications are for the material when offered for transport as fully regulated. Depending on the specific transport details (Ship-From/Ship To locations, quantities being shipped, type of packaging and mode of transport) it may be possible to ship this material in a manner other than fully regulated. (One example is IATA Limited or Excepted Quantity. There are others.) Be sure to review all regulatory agency packaging instructions and special provisions, referenced in this section, to identify options applicable to the specifics of your shipment.

15. Regulatory information

Safety, health and environmental regulations

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix C

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)
SODIUM HYDROXIDE (CAS 1310-73-2)

For cosmetic use
For domestic use, in liquid or semi-solid food additive preparations,
PH>11.5

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)

For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting., If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes., If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water., If inhaled, remove from contaminated area.

PARAFFIN OIL (CAS 8012-95-1)

For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting.

SODIUM HYDROXIDE (CAS 1310-73-2)

For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting., If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes., If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Australia Medicines & Poisons Appendix F

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)

applies to all preparations in any concentration Contains formaldehyde. Avoid contact with eyes., Avoid contact with skin., Avoid breathing dust (or) vapour (or) spray mist., Protect cuticles with grease or oil.

SODIUM HYDROXIDE (CAS 1310-73-2)

in other preparations Contains formaldehyde. Avoid contact with eyes., Avoid contact with skin., Avoid breathing dust (or) vapour (or) spray mist.

in preparations Irritant. Avoid contact with eyes., Avoid contact with skin., Wash hands after use.

in solid preparations Corrosive., May produce severe burns., Attacks skin and eyes. Wear eye protection when mixing or using., Wear protective gloves when mixing or using., Do not mix with hot water.

liquid preparations Corrosive., May produce severe burns., Attacks skin and eyes. Wear eye protection when mixing or using., Wear protective gloves when mixing or using.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)

in preparations for human therapeutic use Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

PERMETHRIN (CAS 52645-53-1)

in preparations for human therapeutic use

Australia Medicines & Poisons Schedule 5

PARAFFIN OIL (CAS 8012-95-1)

Exception may apply, see the regulation for relevance.

PERMETHRIN (CAS 52645-53-1)

Exception may apply, see the regulation for relevance.

SODIUM HYDROXIDE (CAS 1310-73-2)

in preparations being: (a) solid preparations the pH of which in a 10 g/L aqueous solution is more than 11.5; (b) liquid or semi-solid preparations the pH of which is more than 11.5

Australia Medicines & Poisons Schedule 6

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0)

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

PERMETHRIN (CAS 52645-53-1)

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

SODIUM HYDROXIDE (CAS 1310-73-2)

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

Australia National Pollutant Inventory (NPI): Threshold quantity

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

FORMALDEHYDE 35% SOLUTION (CAS 50-00-0) 10000 - 99999 TONNES See the regulation for additional information.

GLYCERIN (CAS 56-81-5) 1000 - 9999 TONNES See the regulation for additional information.

PARAFFIN OIL (CAS 8012-95-1) 1000 - 9999 TONNES See the regulation for additional information.

SODIUM HYDROXIDE (CAS 1310-73-2) > 1000000 TONNES See the regulation for additional information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
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).

16. Other information

Issue date	22-August-2014
Revision date	22-August-2014
References	GSK Hazard Determination
Disclaimer	The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.
Revision Information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Undisclosed Ingredient Statement Physical & Chemical Properties: Ecological Information: Reports Transport Information: Material Transportation Information Regulatory Information: Risk Phrases - Class. GHS: Classification