

PENATRA

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ISSUED Date : 4/08/2021
ISSUED by: DKSH AGRISOLUTIONS NEW
ZEALAND LIMITED

Section 1: Identification

Product Identifier

PENATRA

Product Code

140010649

Company Name

DKSH AGRISOLUTIONS NEW ZEALAND LIMITED

Address

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NEW ZEALAND

Telephone/Fax Number

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Emergency Phone Number

0800 154 666

Email

regaffairs.anz@dksh.com

Recommended uses and any restrictions on use or supply

Highly penetrating wetting agent and dew suppressant for turf.

Section 2: Hazard identification

GHS classification of the substance/mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

6.1D (Dermal) - Substance that is acutely toxic

6.1D (Inhalation – vapours, dusts or mists) - Substance that is acutely toxic

6.1E (Oral) - Substance that is acutely toxic

6.4A Substance that is irritating to the eyes

9.1B Substance that is ecotoxic in the aquatic environment

Signal Word (s)

WARNING

Hazard Statement (s)

H303 May be harmful if swallowed.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Pictogram (s)

Exclamation mark, Environment



Precautionary Statement – Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280c Wear protective gloves/protective clothing.
- P280e Wear eye protection/face protection.

Precautionary Statement – Response

- P391 Collect spillage.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statement – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

Section 3: Composition/information on ingredients

Chemical Characterization

Liquid

Ingredients

Name	CAS	Proportion
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-]-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether (9CI)	134180-76-0	>75 %

Section 4: First-aid measures

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First-aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

Section 5: Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water mist or water spray. Alcohol resistant foam is preferred. If not available normal foam can be used.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including silicon dioxide, carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific hazards arising from the chemical

This product will burn if exposed to fire.

Decomposition Temperature

Not available

Precautions in connection with fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Section 6: Accidental release measures

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Section 7: Handling and storage

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

Section 8: Exposure controls/personal protection

Occupational Exposure Limits (OEL)

No Exposure Limit Established

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

In case of formation of vapours/aerosols:

Short term: filter apparatus, combination filter A-P2

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material:

Nitrile (NBR)

Minimum break-through time of the glove: 480min

Glove strength: 0.11 mm

Natural latex

Minimum break-through time of the glove: 480min

Glove strength: 0.5 mm

Chloroprene (CR, e.g. Neoprene)

Minimum break-through time of the glove: 480min

Glove strength: 0.65 mm

Butyl (IIR)

Minimum break-through time of the glove: 480min

Glove strength: 0.7 mm

Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Section 9: Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Light yellow liquid
Colour	Light yellow	Odour	Characteristic
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	Not available	Solubility in Water	Soluble
pH	6-8 (40 g/l water) (25 °C)	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity
Volatile Component	Not available	Partition Coefficient: n-octanol/water	Not available
Density	1.01 g/cm ³ (25 °C) (approximate)	Flash Point	102 °C (DIN EN 22719 (DIN 51758))
Flammability	Not flammable	Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available	Flammable Limits - Upper	Not available
Explosion Properties	Not available	Oxidising Properties	Not available
Kinematic Viscosity	Not available	Dynamic Viscosity	40-90 mPa.s (25 °C) Method: DIN 53019

Section 10: Stability and reactivity

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Heat, open flames and other sources of ignition.

Incompatible Materials

Strong oxidising agents.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: silicon dioxide, carbon monoxide and carbon dioxide.

Possibility of hazardous reactions

Reacts with incompatible materials.

Hazardous Polymerization

Not available

Section 11: Toxicological information

Toxicology Information

Toxicity data for material given below.

Acute Toxicity - Oral

LD50 (rat): 3200 mg/kg

Acute Toxicity - Inhalation

LC50 (rat): 1.08 mg/l/4h
Test atmosphere: dust/mist
Method: OECD 403
Source: Untersuchungsbericht/Evonik Goldschmidt GmbH

Acute Toxicity - Dermal

LD50 (rabbit): 1550 mg/kg
LD50 (rat): >2000 mg/kg

Ingestion

May be harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

Skin

Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects.

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Eye Irritation

Species: rabbit

Result: strong irritant

Respiratory Sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Species: guinea pig

Result: did not cause sensitization on laboratory animals; non-sensitizing

Germ Cell Mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT - Single Exposure

Not expected to cause toxicity to a specific target organ.

STOT - Repeated Exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

Section 12: Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish

LC50 (Rainbow trout): 2.1 mg/l/96h

Acute Toxicity - Daphnia

EC50 (Daphnia magna): 1.1 mg/l/48h

Acute Toxicity - Algae

EbC50 (Scenedesmus subspicatus): 28.2 mg/l/72h (refer to biomass)

ErC50 (Scenedesmus subspicatus): 152.2 mg/l/72h (growth rate)

Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

Section 13: Disposal considerations

Disposal Considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

Section 14: Transport information

Transport Information

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods must not be loaded in the same freight container or on the same vehicle with:

Class 1: Explosives

Class 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon. Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices. Segregation devices may be used to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6 or 8 or from food items.

UN Number

3082

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3-tetramethyl]-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether (9CI))

Hazard Class

9

Packing Group

III

Hazchem Code

•3Z

UN Number (Air Transport, ICAO)

3082

IATA/ICAO Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl]-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether (9CI))

IATA/ICAO Hazard Class

9

IATA/ICAO Packing Group

III

IATA/ICAO Symbol

Miscellaneous Dangerous Goods

IMDG UN Number

3082

IMDG Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl]-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether (9CI))(Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl]-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether (9CI)) MARINE POLLUTANT

IMDG Hazard Class

9

IMDG Packing Group

III

IMDG Marine pollutant

Yes

IMDG EMS

F-A,S-F

Transport in Bulk

Not available

Special Precautions for User

Not available

Section 15: Regulatory information

Regulatory Information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.
Group Standard: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017.

HSNO Approval Number

HSR002503

New Zealand (NZIoC)

All components of this product are listed on the Inventory or exempted.

Tolerable exposure limit (TEL)

Not available

Environmental exposure limit (EEL)

Not available

Certified Handler

Not available

Tracking

Not required

Controlled Substance Licence Requirements

Not available

Montreal Protocol

Not Listed

Stockholm Convention

Not Listed

Rotterdam Convention

Not Listed

Agricultural Compounds, including Veterinary Medicines (ACVM)

Not available

Section 16: Other information

Date of preparation or last revision of SDS

SDS Reviewed: August 2021, Supersedes: July 2016

Literature References

Hazardous Substances and New Organisms Act 1996.

Health and Safety at Work (Hazardous Substances) Regulations 2017.

Workplace Exposure Standards and Biological Exposure Indices.

Agricultural Compounds and Veterinary Medicines Act 1997.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Contact Person/Point

IMPORTANT ADVICE: An SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this SDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this SDS, each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. DKSH Agrisolutions New Zealand Limited does not accept any other liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it. DKSH Agrisolutions New Zealand Limited SDS WARNING: DKSH Agrisolutions New Zealand Limited is aware that third parties are distributing documents purporting to be SDSs (or the like) in relation to DKSH Agrisolutions New Zealand Limited products without any authorisation from DKSH Agrisolutions New Zealand Limited ("Unauthorised SDS"). DKSH Agrisolutions New Zealand Limited accepts no responsibility for the distribution of an Unauthorised SDS by a third party or for any information contained therein. All DKSH Agrisolutions New Zealand Limited products must be used in accordance with the corresponding original and current SDS authorised by DKSH Agrisolutions New Zealand Limited for use with that DKSH Agrisolutions New Zealand Limited product ("Authorised SDS"). In the event that an SDS in relation to an DKSH Agrisolutions New Zealand Limited product has expired and is not marked as obsolete, please contact DKSH Agrisolutions New Zealand Limited immediately to obtain a current SDS. Further, if an DKSH Agrisolutions New Zealand Limited product is used without the Authorised SDS and/or with an Unauthorised SDS, or an expired SDS which is not marked obsolete, DKSH Agrisolutions New Zealand Limited hereby excludes absolutely and to the maximum extent permitted by law all liability whatsoever and howsoever arising under contract, tort (including negligence) or otherwise for all loss and/or damage including, but not limited to, for personal injury, sickness or death, damage to real property and/or chattels and all indirect and consequential loss (including loss of profits).

END OF SDS

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