



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 Anhang II

PSI + 14 Silverline

Product code: 2449

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Date: March 23, 2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

PSI + 14 Silverline

Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet

Company name:	Permanon GmbH	
Street:	Winterstetten 53	
Place:	D-88299 Leutkirch	
Telephone:	+49(0)7567/1563	Telefax: +49(0)7567/1031
e-mail:	info@permanon.de	
Contact person:	S. Krücken	Telephone: +49(0)7567/1563

Emergency telephone: +49 (0)700/24 11 21 12 (PER)

SECTION 2: Hazards identification

Classification of the substance or mixture

This mixture is not classified as dangerous according to Directive 1999/45/EC.

GHS classification

This mixture is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Label elements

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

EC No.	Chemical name	-----
Quantity		
CAS No.	Classification	-----
Index No.	GHS classification	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

General information

Remove from exposure, lie down.

After inhalation



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Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Wash off with: Water.

After contact with eyes

Immediately flush eye(s) with plenty of water.

After ingestion

Rinse mouth.

If swallowed, do not induce vomiting - seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

water spray, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical

The product itself does not burn.

Special hazards arising from the substance or mixture

Heating or fire can release toxic gas. nitrogen oxides (NO_x) Carbon oxides

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not flush into surface water.

Methods and material for containment and cleaning up

Clean-up methods - small spillage Dilute with plenty of water.

After cleaning, flush away traces with water.

Clean-up methods - large spillage Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.



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Keep container tightly closed.

Advice on protection against fire and explosion

The product itself does not burn.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container.

Advice on storage compatibility

Keep away from food and drink.

Further information on storage conditions

Protect from frost, heat and sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Protective and hygiene measures

Avoid contact with the skin and the eyes.

Wash hands before breaks and at the end of workday.

Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed.

Hand protection

As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Polyvinylchlorid - PVC (0,5 mm)

Eye protection

If splashes are likely to occur, wear:

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	liquid
Colour:	white
Odour:	pleasant

Test method

pH-Value (at 20°C): 1%	7,0
------------------------	-----

Changes in the physical state

Melting point:	not determined
Boiling point:	not determined



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Flash point: not applicable

Explosive properties

Not explosive

Ignition temperature: not applicable

Oxidizing properties

Not applicable.

Density (at 20 °C): 1,0g/cm³ kg/m³**SECTION 10: Stability and reactivity****Reactivity**

No dangerous reaction known under conditions of normal use.

Chemical stability

No decomposition if used as directed.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

Permanon PSi + 14 Silverline

Toxity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity oral:						n.d.a
Acute toxicity by dermal:						n.d.a
Acute toxicity by inhalation						n.d.a
Skin corrosion/irritation						n.d.a.
Serious eye Damage/irritation:						n.d.a.
Respiration or skin sensitation						n.d.a.
Gem cell mutagenicity						n.d.a
Carcinogenity						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity- Single exposure (STOT-SE):						n.d.a.



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Specific target organ toxicity-repeated exposure (STOT-SE):						
Aspiration hazard						n.d.a
Symptoms:						n.d.a
Toxizität bei wiederholter Verabreichung						n.d.a
Symptome:						n.d.a

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Toxity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.



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Bioaccumulative Potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

Contained tenside is more than 90% biodegradable.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

In accordance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging

water.
Completely emptied packages may be recycled.
Dispose of packages that cannot be cleaned.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not classified as dangerous in the meaning of transport regulations.

Marine transport

Other applicable information (marine transport)

Not classified as dangerous in the meaning of transport regulations.

Air transport

Other applicable information (air transport)

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information



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Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

AOX Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)

Art., Art.-Nr. Artikelnummer

Acute Toxicity Estimate (=Schätzwert Akuter Toxizität) gemäß der Verordnung (EG) Nr. 1272/2008 (CLP)

Bundesanstalt für Materialforschung und -prüfung

Biologische Arbeitsstofftoleranzwerte (Schweiz)

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

BCF Biokonzentrationsfaktor (Bio-Concentration Factor)

Bemerkung

BGBerufsgenossenschaft

BGVBerufsgenossenschaftliche Vorschrift

BGWBiologischer Grenzwert (TRGS 903, Deutschland)

BGW /VLB= Biologischer grenswaarde / Valeur limite biologique (Belgien)

BGW, VGÜBGW=Biologischer Grenzwert. VGÜ=Verordnung des Bundesministers für Arbeit und Soziales über die Gesundheitsüberwachung am Arbeitsplatz (Österreich)

BHTButylhydroxytoluol (=2,6-Di-t-butyl-4-methyl-phenol)

BODBiochemical oxygen demand (=biochemischer Sauerstoffbedarf - BSB)

BSEFBromine Science and Environmental Forum

bwbody weight (=Körpergewicht)

bzw. Beziehungsweise

ca.zirka / circa

CASChemical Abstracts Service

Comité Européen des Agents de Surface et de leurs Intermédiaire Organiques (=Europäischer Verband für oberflächenaktive Substanzen und deren organische Zwischenprodukte)

Chemikalien-Risikoreduktions-Verordnung (Schweiz)

Collaborative International Pesticides Analytical Council

Classification, Labelling and Packaging (VERORDNUNG (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und



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Verpackung von Stoffen und Gemischen)

carcinogen, mutagen, reproduktionstoxisch (krebszeugend, erbgutverändernd, fortpflanzungsgefährdend)

Chemical oxygen demand (=chemischer Sauerstoffbedarf – CSB)

Cosmetic, Toiletry, and Fragrance Association

Deutsches Institut für Normung

Derived Minimum Effect Level (=abgeleiteter Minimaler –Effekt-Grenzwert)

Derived No Effect Level (=abgeleiteter Nicht-Effekt-Grenzwert)

Dissolved organic carbon (=gelöster organischer Kohlenstoff)

Dwell Time – 50 % reduction of start concentration (Verweilzeit 50 % Konzentration – Als DT50-Wert wird der Zeitraum bezeichnet, in dem die Anfangskonzentration einer Substanz auf die Hälfte abnimmt.)

Deutscher Verband für Schweißen und verwandte Verfahren e.V.

dry weight (=Trockengewicht)

Europäischer Abfallkatalog

European Chemicals Agency (=Europäische Chemikalienagentur)

Europäische Gemeinschaft

Europäisches Inventar der bekannten kommerziellen chemischen Stoffe / Altstoffinventar (European Inventory of Existing Commercial Chemical Substances)

Europäische Liste angemeldeter chemischer Stoffe / Neustoffliste (European List of Notified Chemical Substances)

ENEuropäische Normen

EPAUnited States Environmental Protection Agency (United States of America)

ERCEnternational Release Categories (=Umweltfreisetzungskategorien)

ESExpositionsszenario

etc., usw.et cetera, und so weiter

EUEuropäische Union

EWGEuropäische Wirtschaftsgemeinschaft

EWREuropäischer Wirtschaftsraum

Fax.Faxnummer

gem.gemäß

ggf.gegebenenfalls

Gefahrgutverordnung Straße und Eisenbahn (Deutschland) – Diese Verordnung wurde durch die GGVSEB abgelöst bzw. ging in dieser auf.

Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt (Deutschland)

Gefahrgutverordnung See (Verordnung über die Beförderung gefährlicher Güter mit Seeschiffen, Deutschland=

Weltweit harmonisiertes System zur Einstufung und Kennzeichnung von Stoffen und Gemischen (Globally Harmonised System of Classification, Labelling and Packaging of Chemicals)

Glycerintrinitrat

Grenswaarde voor beroepsmatige blootstelling (Valeur limite d'exposition professionnelle (Belgien)

VL-cdGrenswaarde voor beroepsmatige blootstelling – Kortetijdsdwaarde / Valeur limite d'exposition professionnelle – Valeur courte durée (Belgien)



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- L-M Grenswaarde voor beroepsmatige blootstelling – „Ceiling“ / Valeur limite d'exposition professionnelle – „Ceiling“ (Belgien)
- Global warming potential (=Treibhauspotenzial)
- M Hen's Egg Test – Chorionallantoic Membrane
- Halocarbon Global Warming Potential
- Internationale Agentur für Krebsforschung (International Agency for Research on Cancer)
- Verband für den internationalen Lufttransport (International Air Transport Association)
- Großpackmittel (Intermediate Bulk Container)
- e) International Bulk Chemical (Code)
- Inhibitorische Konzentration
- de Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)
- Inklusive, einschließlich
- Datenbanksoftware wie sie zur Registrierung eingesetzt wird (International Uniform Chemical Information Database)
- Keine Daten vorhanden
- Kraftfahrzeug
- Konzentration
- Letalkonzentration
- letale (tödliche) Dosis einer Chemikalie
- Lethal Dose, 50 % (=mittlere letale Dosis)
- Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (Deutschland)
- Lowest Observed Effect Concentration (= Niedrigste Konzentration, bei der eine Wirkung beobachtet wird)
- niedrigste Dosierung mit beobachtetem Effekt (Lowest observable effect level)
- Limited Quantities (=begrenzte Mengen)
- Luftreinhalte-Verordnung (Schweiz)
- MAKMaximale Arbeitsplatzkonzentration – DFG
- MAK-Kzw, TRK-Kzw MAK-Kzw = Maximale Arbeitsplatzkonzentration –Kurzzeitwert / TRK-Kzw =n Technische Richtkonzentration – Kurzzeitwert (Österreich)
- MAK-MowMaximale Arbeitsplatzkonzentration –Momentanwert (Österreich)
- MAK-Tmw, TRK-TmwMAK-Tmw =Maximale Arbeitsplatzkonzentration – Tagesmittelwert / TRK-Tmw = Technische Richtkonzentration – Tagesmittelwert (Österreich)
- MARPOLInternationale Übereinkommen zur Verhütung der Meeresverschmutzung durch Schiffe
- Min., min.Minute(n) oder mindestens oder Minimum
- n.a. nicht anwendbar
- n.g. nicht geprüft
- n.v.nicht verfügbar
- Nationales Institut für Arbeitsschutz, Amerika (National Institute for Occupational Safety & Health)
- No observed Adverse Effect Level (=Dosis ohne beobachtete schädigende Wirkung)
- NOECHöchste Dosis ohne schädliche Wirkung (No Observed Effect Concentration)
- NOELDosis ohne Wirkung (No Observed Effect Level)



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ODPOzone Depletion Potential (=Ozonabbaupotenzial)

Internationale Organisation für wirtschaftliche Zusammenarbeit und Entwicklung (Organization for Economic Cooperation and Development)

organisch

polyzyklischer aromatischer Kohlenwasserstoff

persistent, bioakkumulierbar, giftig (persistent, bioaccumulative, toxic)

PCProduktkategorie (Product category)

PEPolyethylen

PNECAbschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)

Photochemical ozone creation potential (=Photochemisches Ozonbildungspotenzial)

PPPolypropylen

PROZProzesskategorie (Process category)

Pt.Punkt

PTFEPolytetrafluorethylen

PURPolyurethane

PVCPolyvinylchlorid

Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)

List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

respektive

Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

Self-Acceleration Decomposition Temperature (=Selbstbeschleunigende Zersetzungstemperatur)

Sector of use (=Verwendungssektor)

Substances of Very High Concern (=besonders besorgniserregende Substanzen)

Telefon

Theoretischer Sauerstoffbedarf (Theoretical Oxygen Demand)

Total organic carbon (= Gesamter organischer Kohlenstoff)

Technische Regeln Druckgase

Technische Regeln für Gefahrstoffe

Ultraviolett

Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)

Verband der Chemischen Industrie e.V.

Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)

sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)

Verwaltungsvorschrift wassergefährdende Stoffe

Wassergefährdungsklasse gemäß Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS (Deutsche Verordnung)
schwach wassergefährdend



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wassergefährdend
stark wassergefährdend
World Health Organization (=Weltgesundheitsorganisation)
wet weight (=Feuchtmasse)
zur Zeit
zum Beispiel

Die hier gemachten Angaben sollen das Produkt im Hinblick auf die erforderlichen Sicherheitsvorkehrungen beschreiben, sie dienen nicht dazu bestimmte Eigenschaften zuzusichern und basieren auf dem heutigen Stand unserer Kenntnisse.

Haftung ausgeschlossen.

Ausgestellt von:

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