



W401 STAIN REPELLENT

MATERIAL SAFETY DATA SHEET

Last revised: 20 December 2024

Substance/preparation and company identification

Company:

Warrior Pte Ltd

Contact address:

17 Marsiling Industrial Estate Road 1 #01-11

Singapore 739279

Tel: +65 6364 5100 E-mail: war99@singnet.com.sg

Composition/information on ingredients

Ingredient	CAS No.	Content Percentage
water	7732-18-5	85-87%
Partial fluorinated alcohol, reaction products with phosphorus oxide (P2O5), Ammonium salts	78-10-4	13-15%

Product hazard classification

Acute toxicity (inhalation) : Category 1

Specific target organ: Category 2 (Liver)

Toxicity – repeated exposure

Chronic aquatic toxicity: Category 2

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

First Aid Measures

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of limewater or milk to drink. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

In case of contact, wipe off excess from skin then immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.



W401 STAIN REPELLENT

MATERIAL SAFETY DATA SHEET

Eye Contact:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

Most important symptoms/effects, acute and delayed

Inhalation may provoke the following symptoms, irritation, shortness of breath, cough, lung oedema.

Fire-fighting measures

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide. Foam or water on molten oxalic acid may cause frothing. Water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Accidental release measures

- Remove all sources of ignition.
- Ventilate area of leak or spill.
- Wear appropriate personal protective equipment as specified.

Spills:

- Clean up spills in a manner that does not disperse dust into the air.
- Use non-sparking tools and equipment.
- Pick up spill for recovery or disposal and place in a closed container.
- Remove unnecessary people.
- If material comes in contact with water, neutralize liquid with alkaline material (soda ash, lime), then absorb with an inert material (e.g. vermiculite, dry sand, earth) and place in a chemical waste container. Do not use combustible materials, such as saw dust.
- Do not flush to sewer.

Handling and Storage

- Keep in a tightly closed container.
- Protect from physical damage.
- Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.
- Containers of this material may be hazardous when empty since they retain product residues (dust, solids).
- Observe all warnings and precautions listed for the product.



W401 STAIN REPELLENT

MATERIAL SAFETY DATA SHEET

Exposure controls and personal protection equipment

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and dust/mist filter may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and dust/mist filter may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Physical and Chemical Properties

Appearance: Amber, viscous liquid

Odour: None.

Boiling point: 100°C

Melting point: No information found.

Specific Gravity: 1.2g/cm³

Solubility: ca. 1g/7MI of water

pH: 7-9

Vapor Density (Air=1): No information found.

Evaporation Rate (BuAc=1): No information found.

% Volatiles by volume@ 21°C (70°F): No information found.

Flash point: Does not flash.

Autoignition temperature: No information found.

Flammable limits in air % by volume: No information found.



W401 STAIN REPELLENT

MATERIAL SAFETY DATA SHEET

Stability and reactivity

Stability:

Stable under ordinary conditions of use and storage. Heat will contribute to instability.

Hazardous Decomposition Products:

incompletely burned carbon products hydrofluoric acid...% carbon dioxide, carbon monoxide

Hazardous Polymerization:

To avoid thermal decomposition, do not overheat

Conditions to Avoid:

Heat, ignition sources and incompatibles.

Toxicological information

Toxicological Data:

Acute toxicity

Oral : LD50/rat>5000mg/kg

Inhalation : ALC – Approximate Lethal Concentration/4 h/Rat: 0.047mg/l

Irritating to respiratory system.

Acute toxicity estimate /4 h/Rat(dust/mist): 0.005mg/l

Disposal considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Transport Information

SS586:Part 1:2008

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fluoroalkyl phosphate salt)
Class : 9
Packing group : III

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fluoroalkyl phosphate salt)
Class : 9
Packing group : III
Marine pollutant : yes (Fluoroalkyl phosphate salt)

IATA

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fluoroalkyl phosphate salt)
Class : 9
Packing group : III

Matters needing attention for transportation : Not applicable



W401 STAIN REPELLENT

MATERIAL SAFETY DATA SHEET

Section 16: Other Information

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: war99@singnet.com.sg
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.