

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:

PASS SOLUTION

Other name(s):

Aluminium hydroxide silicate sulfate solution; Polyaluminium silicate sulfate solution.

Recommended Use of the Chemical Water treatment. and **Restrictions on Use**

| Supplier: ABN: Street Address: | Ixom Operations Pty Ltd 51 600 546 512 Level 8, 1 Nicholson Street East Melbourne Victoria 3002 Australia |
|--------------------------------------|---|
| Telephone Number: | +61 3 9906 3000 |
| Emergency Telephone: | 1 800 033 111 (ALL HOURS) |

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Classification of the chemical:

Acute Oral Toxicity - Category 4 Eye Irritation - Category 2A

SIGNAL WORD: WARNING



Hazard Statement(s): H302 Harmful if swallowed. H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P264 Wash hands thoroughly after handling.P270 Do not eat, drink or smoke when using this product.P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response:

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. 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.

Storage:

No storage statements. Product Name: PASS SOLUTION Substance No: 00000017534



Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

Poisons Schedule (SUSMP): None allocated.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Components | CAS Number | Proportion | Hazard Codes |
|--------------------------------------|-------------|------------------------|--------------|
| Aluminium hydroxide silicate sulfate | 131148-05-5 | 9.8% as Al2O3 (min) | H302 H319 |
| Water | 7732-18-5 | to 100% | - |

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically. Material is acidic.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the chemical:

Non-combustible material.

Special protective equipment and precautions for fire-fighters:

Decomposes on heating emitting toxic fumes, including those of oxides of sulfur and oxides of aluminium. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES



Emergency procedures/Environmental precautions:

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Avoid breathing in vapours. Work up wind or increase ventilation. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store between 10°C and 15°C. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Aluminium oxide: $8hr TWA = 10 mg/m^3$

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.





Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state: | Clear to Slightly Cloudy Liquid |
|----------------------------------|---------------------------------|
| Colour: | Pale Yellow |
| Odour: | Negligible |
| Solubility: | Miscible with water. |
| Specific Gravity: | ca. 1.32-1.36 |
| Relative Vapour Density (air=1): | Not available |
| Vapour Pressure (20 °C): | Not available |
| Flash Point (°C): | Not applicable |
| Flammability Limits (%): | Not applicable |
| Autoignition Temperature (°C): | Not applicable |
| pH: | 2.8-3.6 |
| Freezing Point/Range (°C): | 0-5 |

10. STABILITY AND REACTIVITY

| Reactivity: | No information available. |
|-------------------------------------|--|
| Chemical stability: | Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Possibility of hazardous reactions: | Hazardous polymerisation will not occur. May be corrosive to metals. |
| Conditions to avoid: | Avoid exposure to heat, sources of ignition, and open flame. Avoid temperatures below 10°C. Product will form crystals at 0-5°C. |
| Incompatible materials: | Incompatible with alkalis. Incompatible with strong oxidising agents. Incompatible with strong reducing agents. Incompatible with strong mineral acids . |
| Hazardous decomposition products: | Oxides of sulfur. Oxides of aluminium. |

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:

Swallowing may result in nausea, vomiting, and abdominal pain. May cause irritation to the mouth, throat and digestive tract.

| Eye contact: | An eye irritant. | |
|---|--|--|
| Skin contact: | Contact with skin may result in irritation. | |
| Inhalation: | Breathing in mists or aerosols may produce respiratory irritation. | |
| Acute toxicity: No LD50 data available for the product. | | |
| Respiratory or skin sensitisation: | No information available. | |
| Chronic effects: No information available for the product. | | |
| Mutagenicity: Carcinogenicity: | No information available. No component contained in this material is listed as carcinogenic according to the International Agency for Research on Cancer (IARC). | |
| Reproductive toxicity: Specific Target Organ Toxicity (STOT) - single exposure: | No information available. No information available. | |
| Specific Target Organ Toxicity (STOT) - repeated exposure: Aspiration hazard: | No information available. No information available. | |

12. ECOLOGICAL INFORMATION

| Ecotoxicity | Avoid contaminating waterways. |
|----------------------------|--------------------------------|
| Persistence/degradability: | No information available. |
| Bioaccumulative potential: | No information available. |
| Mobility in soil: | No information available. |

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

IXOM



This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Classification of the chemical: Acute Oral Toxicity - Category 4 Eye Irritation - Category 2A

Hazard Statement(s): H302 Harmful if swallowed. H319 Causes serious eye irritation.

Poisons Schedule (SUSMP): None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason(s) for Issue:

5 Yearly Revised Primary SDS Change in Exposure Controls

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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