CHEMICAL SAFETY DATA SHEET

Product Name: Calcium Wash

SECTION 1: Chemical Product and Company Identification

1.1	**Product Name:**	Calcium Wash
1.2	**Product Code:**	PR2047
1.3	**Organisation:**	DS Chemport (Malaysia) Sdn Bhd In Association with DS Druckerei Service GmbH, Germany DS Chemport (Australia) Pty Ltd, Australia
1.4	**Address:**	Lot 257, Persiaran Teknologi, Taman Perindustrian Teknologi Tinggi Subang, 40200, Shah Alam, Selangor Darul Ehsan, Malaysia.
1.5	**Phone:**	603 - 56311173
1.6	**Fax:**	603 - 56312212

SECTION 2: Composition/Information on Ingredients

2.1	**Chemical Family:**	Acids and surfactant mixture in water.			
2.2	**Area of Use:**	Cleaner for limes deposit on offset printing machines.			
2.3	**Hazardous Components**		**CAS no**	**Contents/%**	**Hazards**
	2-hydroxypropion acid		50-21-5	10 - 25	Xi, Irritant; R36/38
	Phosphoric acid ester, Na salt		72828-57-01	1 - 5	Xi, Irritant; R36/38

SECTION 3: Physical and Chemical Properties

3.1	**Appearance:**	Colourless translucent thick liquid.
3.2	**Odour:**	Mild.
3.3	**Boiling Range:**	> 100°C
3.4	**Solubility:**	Miscible.
3.5	**Viscosity:**	18 - 24 secs @ 25 °C with DIN #4 cup
3.6	**Specific Gravity:**	1.060 - 1.070 g/ml @ 25 °C
3.7	**Vapour Pressure:**	23 mbar.
3.8	**Vapour Density:**	Not available.
3.9	**pH:**	2.0 - 3.0
3.10	**Flash Point:**	> 100°C
3.11	**Ingnition Temperature:**	Not available.
3.12	**Evaporation Rate:**	Not available.
3.13	**Explosion Limits:**	Not available.
3.14	**Percentage Volatile:**	Approximately 78%
3.15	**Other Properties:**	Not available.

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SECTION 4: Hazard Identification

4.1 Most important hazards:
Not hazardous product according to current directive of Occupational Safety and Health (Classification, Packaging and Labeling) Regulations 1997 [P.U. (A) 143]. However the precautions usual with handling with chemicals have to be observed. Frequent and long lasting contact may cause irritation and burns to the skin and eyes.

SECTION 5: First Aid Measures

5.1	**General:**	Remove contaminated clothing and rinse affected area with water and soap.
5.2	**Ingestion:**	Give victim plenty of water to drink. DO NOT induce vomiting. Seek medical advice.
5.3	**Skin contact:**	Wash off thoroughly under running water.
5.4	**Inhalation:**	Bring victim, feeling sick or dizzy, into fresh water.
5.5	**Eye contact:**	Rinse immediately at least for 10 - 15 minutes under running water with eyelids held open.

SECTION 6: Fire Fighting Measures

6.1	**Media to use:**	Water spray, foam, carbon dioxide, dry chemical powder.
6.2	**Instructions:**	Wear appropriate safety apparatus when fighting with fire.
6.3	**Special Danger:**	Product does not burn itself.

SECTION 7: Accidental Release Measures

7.1 Step to be taken in case material is released or spilled:
Spilled liquid should not reach the sewage system, inshore waters or low lying areas. Wash away small amounts with water. Neutralize larger amounts with lime or sodium bicarbonate, before washing off.

SECTION 8: Handling and Storage

8.1 Precautions to be taken in handling:
Avoid frequent or long lasting contact with skin and eyes.

8.2 Storage:
Keep container tightly closed in a cool place. Store in original plastic containers, because product has a potential of corrosive to most of the metal. Never store combine with alkalis and nitrits. Avoid frost, heat and direct sun-light.

SECTION 9: Exposure Control and Personal Protection

9.1 Occupational Exposure limits:
Not available.

9.2 Personal Protection and Engineering Control:
Wear protective gloves and safety glass that resist acids when handling.

SECTION 10: Stability and Reactivity

10.1 Hazard Reaction: Not available.
10.2 Hazard Decomposition: Not available.
10.3 Substances to avoid: Neutralisation with alkaline will form some heat. Corrosive to most of the metals
10.4 Conditions to avoid: Not available.
10.5 Stability: Not available.

SECTION 11: Toxicological Information

11.1 Toxicity Data: No sensitisation known to us.
11.2 Breathing In: None known.
11.3 Eye Contact: May cause irritation to burning.
11.4 Skin Contact: Frequent or long lasting skin contact may degrease the skin and cause irritation.
11.5 Oral Intake: May damage the digestion system.

SECTION 12: Ecological Information

12.1 Mobility: Flowable.
12.2 Bioaccumulation: If forwarded properly to adapted, biological sewage plant, there will be no disturbance in the decomposition activity of the activated sludge.
12.3 Biodegradability: Not available.
12.4 Aquatic Toxicity: Not available.

SECTION 13: Disposal Information:

13.1 Recommended waste disposal:
Residues of chemicals are considered to be special waste, which must be disposed off according to the law on waste of the Federal Government as well as the relevant regulations. Contact the appropriate authorities or a waste disposal company, which will inform you about disposal of special waste.

SECTION 14: Transport Information

14.1 UN No: Not available.
14.2 Transport Information: Not a dangerous product.
14.3 Packing Group: Not available.
14.4 Rail/road transport: **GGVS/GGVE:** Not available.
14.5 See transport: **GGV-See/IMDG:** Not available.
14.6 Air transport: **IATA/ICAO:** Not available.

SECTION 15: Regulatory Information

15.1 Warning Symbol: Not available.
15.2 Risk-phrases:
15.3 Safety-phrases:
15.4 Dangerous component(s) for labeling:
Not available.

SECTION 16: Other Information

16.1 Other Information:
All the regulatory classification is in line with current directive of Occupational Safety and Health (Classification, Packaging and Labelling) Regulations 1997 [P.U. (A) 143]. It is expanded, however, by information from technical literature and information furnished by suppliers of the contain ingredients used.

The information contained herein relates only to the specific material identified, DS Groups of Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. DS Groups of company urges persons reviewing this information to make their own determination as to the information's suitability and completeness for their particular application.