

Safety Data Sheet

Section 1 - Identification of The Material and Supplier

Zexa PTY LTD
28 Strathmore Rd
Caves Beach NSW 2281

Phone: 0249707777
(Office hours)

Chemical nature: Water solution of potassium hydroxide, sodium metasilicate pentahydrate & other ingredients.
Trade Name: **Combi Clean Pro**
Product Use: Heavy duty combi oven/grill cleaner.
Creation Date: **March, 2019**
This version issued: **March, 2019** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: N, Dangerous to the environment. C, Corrosive. Hazardous according to the criteria of SWA.

Dangerous according to the Australian Code for the Transport of Dangerous Goods by Road & Rail.

Risk Phrases: R35, R51. Causes severe burns.

Hazard Classifications:

Skin Corrosion/Irritation - Category 1A

Serious Eye Damage/Irritation - Category 1

SUSMP Classification: S6. Poison

ADG Classification: Class 8: Corrosive Substances.

UN Number: 1814, POTASSIUM HYDROXIDE SOLUTION



GHS Signal word: DANGER

HAZARD STATEMENT: .

H314: Causes severe skin burns and eye damage.

PREVENTION Precautionary Statements

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe fumes, mists, vapours or spray.

P264: Wash contacted areas and all exposed skin thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE Precautionary Statements

P101: If medical advice is needed, have product container or label at hand

P310: Immediately call a POISON CENTRE or doctor/physician.

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P390: Absorb spillage to prevent material damage.

P391: Collect spillage.

STORAGE Precautionary Statement

P405: Store locked up.

DISPOSAL Precautionary Statement

P501: Dispose of contents and containers in accordance with local, regional, national & international regulations.

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Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %
Potassium hydroxide	1310-58-3	1-10%
Sodium metasilicate pentahydrate	10213-79-3	1-10%
Other non hazardous ingredients	Balance	100%

Section 4 - First Aid Measures

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: Remove victim from 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 or hair contact occurs, remove contaminated clothing and flush skin and hair with gently flowing water. If swelling, redness, blistering or irritation occurs, seek medical assistance. For gross contamination, immediately drench with water and remove clothing, shoes, watchbands, belts. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, DO NOT break blisters.

Eye Contact: Urgently seek medical assistance. Immediately irrigate with copious quantities of water for 15 minutes until medical assistance arrives or transport to hospital or medical centre. Eyelid(s) to be held open during irrigation. Remove clothing if contaminated and wash skin.

Ingestion: Rinse mouth thoroughly with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs, give further water. Seek medical advice.

Note to physician: Treat symptomatically: can cause corneal burns.

Section 5 - Fire Fighting Measures

Hazchem Code: 2R

Suitable Extinguishing Media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material

Fire Fighting: Not combustible, however following evaporation of aqueous component, residual material can burn if ignited.

Section 6 - Accidental Release Measures

SMALL SPILLS:

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent material (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS:

Clear area of all unprotected personnel. SLIPPERY when spilt. Avoid accidents - clean up IMMEDIATELY. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work upwind or increase ventilation to area. 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. If contamination of crops, sewers or waterways has occurred, advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 37

Section 7 - Handling and Storage

Handling: Avoid eye and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 8 Corrosive as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.

Section 8 - Exposure Controls and Personal Protection

National occupational exposure limits:

SWA Exposure Limits	TWA ppm (mg/m ³)	STEL ppm (mg/m ³)	NOTICES
Potassium hydroxide 1310-58-3	- 2 Peak limitation	- -	-

As published by Safe Work Australia

TWA - The Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week, over an entire working life.

STEL - The Short Term Exposure Limit: the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation - a ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible but not exceeding 15 minutes.

These 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 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.

If directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Endure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: RUBBER BOOTS, OVERALLS, GLOVES, APRON, FACE SHIELD

Manufacturing, packaging and transport: Wear rubber boots, overalls, gloves, apron, face-shield. Available information suggests that gloves made from NITRILE rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 8 - Exposure Controls and Personal Protection - cont'

RECOMMENDATIONS FOR CONSUMER USE: Wear safety glasses and gloves. Wash hands after use.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink, or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Brown liquid.
Odour:	Mild odour, characteristic.
Base units:	Litres
Boiling Point/Range (oC):	Approximately 100°C
Melting Point/Range (oC):	N Av
Flash Point (oC):	N App
Flammability Limits (%):	N App
Vapour Pressure (20oC):	N Av
Relative Vapour Density (air=1):	>1
Specific Gravity (20oC):	1.16
Solubility:	Soluble in water.
pH:	13.5 - 14.0
Viscosity:	N Av
Total VOC (g/litre):	N Av
Autoignition temp (oC):	N App
Decomposition Point (oC):	N Av

(Typical Values only - consult specification sheet)
N Av = Not Available, N App = Not Applicable

Section 10 - Stability and Reactivity

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Reacts violently with acids in an exothermic reaction. Reacts with oxidising agents. may be corrosive to metals.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

Section 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:

Acute Effects

Skin Contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Section 11 - Toxicological Information - cont'

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract

Eye Contact: A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Acute toxicity

Inhalation: This material has been classified as non-hazardous.
Acute toxicity estimate (based on ingredients): >20mg/L

Skin Contact: This material has been classified as non-hazardous.
Acute toxicity estimate (based on ingredients): >2,000mg/Kg

Ingestion: This material has been classified as non-hazardous.
Acute toxicity estimate (based on ingredients): >2,000mg/Kg

Corrosion/Irritancy: Eye: This material has been classified as a Category 1 Hazard (irreversible effects to eyes).
Skin: This material has been classified as a Category 1A Hazard (irreversible effects to skin).

Sensitisation: Inhalation: This material has been classified as not a respiratory sensitiser.
Skin: This material has been classified as not a skin sensitiser.

Aspiration Hazard: This material has been classified as non hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non hazardous.

Chronic toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation) : This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

Section 12 - Ecological Information

Avoid contaminating waterways

Acute aquatic hazard: Harmful to aquatic species due to pH effects.

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} <4.

Ecotoxicity: Product is likely to be corrosive to terrestrial species.

Persistence and degradability: Hydrolysed in soil.

Bioaccumulative potential: Product does not bioaccumulate. Partitions into water.

Mobility: Depends on water content in soil. High water content, indicates high mobility.

Section 13 - Disposal Considerations

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used (see "Section 8. Exposure Controls and Personal Protection" of this SDS. If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

Section 14 - Transport Information

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN No: 1814
Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2R
Emergency Response Guide No: 37
Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION



Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No: 1814
Dangerous Goods Class: 8
Packing Group: II
Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1814
Dangerous Goods Class: 8
Packing Group: II
Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION



Section 15 - Regulatory Information

HSNO Group Standard: HSR002526 - Cleaning Products (Corrosive) Group Standard 2006

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from the production, formulation and use of biocides and phytopharmaceuticals

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

This material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).
- All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 - Other Information

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of Clean Plus Chemicals Pty Ltd. for Zexa Chemicals Pty Ltd.

Reason for issue: First issue

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Zexa Chemicals Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD STATEMENT: INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

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.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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