



SAFETY DATA SHEET

ALKALI CONCENTRATE

Infosafe No.: 3JA14
ISSUED Date : 24/02/2022
ISSUED by: JASOL AUSTRALIA

CLASSIFIED AS HAZARDOUS

Section 1 - Identification

Product Identifier

ALKALI CONCENTRATE

Product Code

2066062

Company Name

JASOL AUSTRALIA

Address

41-45 Tarnard Drive Braeside
VIC 3195 AUSTRALIA

Telephone/Fax Number

Tel: 03 95805722
Fax: 03 95809902

Emergency Phone Number

1800 629 953

Recommended use of the chemical and restrictions on use

Heavy Duty Alkaline Detergent for Automatic Laundry Feed systems. Dispensed via Automatic Dosing Equipment.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Corrosive to metals: Category 1

Eye damage/irritation: Category 1

Skin corrosion/irritation: Category 1A

Specific target organ toxicity (single exposure): Category 3 (Respiratory tract irritation)

Signal Word (s)

DANGER

Hazard Statement (s)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Pictogram (s)

Corrosion, Exclamation mark



Precautionary Statement – Prevention

P234 Keep only in original packaging.
P260 Do not breathe dusts or mists.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement – Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P310 Immediately call a POISON CENTER/doctor.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see First Aid measures on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Precautionary Statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in a corrosion resistant container with a resistant inner liner.

Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
Sodium hydroxide	1310-73-2	20-40 %
1-Hydroxyethylidene -1, 1-Diphosphonic Acid	2809-21-4	1-5 %
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	164462-16-2	0-<1 %
Ingredients determined not to be hazardous		Balance

Section 4 - First Aid Measures

Inhalation

If inhaled, remove affected person from contaminated area and keep at rest in a position comfortable for breathing. Seek medical attention. Apply artificial respiration if NOT breathing and immediately seek medical attention.

Ingestion

Do NOT induce vomiting. Wash/rinse out mouth thoroughly with water. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. Contact a Poisons Information Centre or doctor and seek immediate medical attention.

Skin

If on skin (or hair) remove all contaminated clothing immediately. Wash/rinse skin thoroughly with water and non-abrasive soap for 15 minutes, or until advised to stop by a poisons information centre or a doctor. Seek immediate medical attention. Ensure contaminated clothing is washed before re-use or discard.

Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses, if present and easy to do. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Urgently seek medical attention. Transport promptly to a hospital or medical centre.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically. Material is a solution of sodium hydroxide and is strongly alkaline and corrosive. Can cause corneal burns. Aspiration of vomitus may cause lung injury.

Other Information

For advice in emergencies contact:

Poisons Information Centre (Australia): 131 126

National Poisons Centre (New Zealand): 0800 764 766

Section 5 - Firefighting Measures

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water fog or water mist.

Unsuitable Extinguishing Media

Water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, phosphorus oxides and phosphines.

Specific hazards arising from the chemical

Non-combustible material. Following evaporation under fire conditions, the residues may decompose and/or burn. Corrosive material. Contact with metals may liberate hydrogen gas which is extremely flammable.

Hazchem Code

2R

Decomposition Temperature

No data available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Section 6 - Accidental Release Measures

Emergency Procedures

Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. Increase ventilation. Do not allow large quantities of product into drains or sewers. If contamination of drains or sewers has occurred advise local emergency services.

Spills & Disposal

Place inert absorbent material (e.g. sand or soil) onto spillage. Collect the material and place into a suitable labelled container. Wash site of spillage thoroughly with water. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Personal Protection

Wear protective equipment to prevent skin and eye contact and breathing vapours (see section 8).

Section 7 - Handling and Storage

Handling and storage

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for Safe Handling

Corrosive liquid. Attacks skin and eyes. Causes burns. Avoid breathing in vapours, mist or fumes. Wear suitable protective clothing, gloves and eye/face protection when mixing and using (see section 8). Use in designated areas with adequate ventilation. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. This product is intended for use in closed systems only.

Conditions for safe storage, including any incompatibilities

Corrosive liquid. Store in a cool dry well-ventilated area. Store in original packages as approved by manufacturer. Store away from incompatible materials listed in section 10. Protect from freezing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances.

Unsuitable Materials

Zinc, aluminium, tin, copper, copper alloys, brass and bronze.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values

No exposure standards have been established for this material. Available exposure limits for ingredients are listed below:

Sodium hydroxide (CAS: 1310-73-2):

TWA: 2mg/m³ (peak limitation) (As published by Safe Work Australia)

TWA: Time Weighted Average. The maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.(Safe Work Australia 2018).

Biological Monitoring

No biological limits allocated.

Engineering Controls

Ensure workspace has adequate ventilation. If engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye and Face Protection

Safety glasses with side-shields and full face shield should be used. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as rubber or plastic. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment

Final selection of Personal Protective Equipment is dependent on a detailed risk assessment, taking into consideration the work situation, handling methods and environmental factors.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear liquid
Colour	Colourless	Odour	Odourless
Melting/Freezing Point	No data available	Boiling Point	No data available
Decomposition Temperature	No data available	Solubility in Water	Miscible with water in all proportions
Specific Gravity	Approximately 1.30 at 20°C	pH	>13
Vapour Pressure	No data available	Relative Vapour Density (Air=1)	No data available
Evaporation Rate	No data available	Odour Threshold	No data available
Viscosity	No data available	Partition Coefficient: n-octanol/water (log value)	No data available
Flash Point	No data available	Flammability	Not flammable
Auto-Ignition Temperature	No data available	Flammable Limits - Lower	No data available
Flammable Limits - Upper	No data available	Initial boiling point and boiling range	No data available
Relative Density	No data available		

Section 10 - Stability and Reactivity

Reactivity

Reacts with incompatible materials.

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

Contact with aluminium, tin, zinc or galvanised iron can generate hydrogen, a flammable gas.

Contact with ammonium salts can generate ammonia, a poisonous gas.

Will react violently with acids.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Acids.

Zinc, aluminium, tin, copper, copper alloys, brass and bronze. or galvanised iron (can generate hydrogen, a flammable gas).

Ammonium salts (can generate ammonia, a poisonous gas).

Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, oxides of nitrogen, phosphorus oxides and phosphines.

Hazardous Polymerization

No data available

Section 11 - Toxicological Information

Toxicology Information

Available toxicity data for mixture and ingredients is given below.

Acute Toxicity - Oral

Acute toxicity estimate for mixture: LD50: >5000 mg/kg (GHS 3.1.3.6.1).

1-Hydroxyethylidene-1, 1-diphosphonic acid (CAS: 2809-21-4):

LD50(Rats): 1,440-3,550 mg/Kg BW

Ingestion

Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

Inhalation

Inhalation of mist or vapour will result in respiratory irritation and possible harmful corrosive effects including burns, lesions of the nasal septum, pulmonary edema, and scarring of tissue.

Skin

Causes severe burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Skin contact often does not cause pain, thus care should be taken to avoid contamination of gloves and footwear.

Eye

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Respiratory Sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ Cell Mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT - Single Exposure

May cause respiratory irritation.

STOT - Repeated Exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

Section 12 - Ecological Information

Ecotoxicity

No ecotoxicity data available for this material.

Persistence and degradability

No data available

Mobility

No data available

Bioaccumulative Potential

No data available

Environmental Protection

Do not discharge large volumes of this material into waterways, drains and sewers.

Section 13 - Disposal Considerations

Disposal Considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

Section 14 - Transport Information

Transport Information

This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following:

- Class 1, Explosives,
- Class 4.3, Dangerous When Wet Substances,
- Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides,
- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances,
- Class 8, Corrosive Substances (concentrated strong acid is to be segregated from strong alkali),
and are incompatible with food and food packaging in any quantity.

ADG U.N. Number

1719

ADG Proper Shipping Name

CAUSTIC ALKALI LIQUID, N.O.S.(CONTAINS SODIUM HYDROXIDE)

ADG Transport Hazard Class

8

ADG Packing Group

II

Hazchem Code

2R

IERG Number

37

Special Precautions for User

No data available

IMDG Marine pollutant

No

Transport in Bulk

No data available

Section 15 - Regulatory Information

Regulatory Information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S6

Section 16 - Any Other Relevant Information

Date of Preparation

SDS updated (added STOT single exposure statement to section 11): 15 Jul 2020

SDS updated (toxicity data added to section 11): 07 Jul 2020

SDS reviewed and reissued: 06 Jul 2020

SDS reviewed (superseded): Jul 2015

SDS created (superseded): Mar 2014

Literature References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP 23).

Australian Code for the Transport of Dangerous Goods by Road & Rail (edition 7.5).

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Governmental Industrial Hygienists (ACGIH).

END OF SDS

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