Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10
Effective Date: 15 January 2024

Product Name: Sodium Hydroxide 50%

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	Sodium Hydroxide 50%
Other Names	Caustic soda
CAS No.	1310-73-2
Product Code & Size	20SH50 – 20 Litre
Recommended Uses	Industrial Water treatment
Company Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street, Windsor, QLD, 4030
Phone	+61 402 981 808
Emergency Contact Number	+61 402 981 808 General Information
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre **Australia 131 126** or **New Zealand 0800 764 766**

SECTION 2: HAZARDS IDENTIFICATION

Classification Hazardous chemical according to GHS (Globally Harmonized System)

Hazard Category

Category 1 Corrosive to metals
Category 1A Skin corrosion/ irritation
Category 1 Serious eye damage/ irritation



Signal word: Danger

Hazard Statements
H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

Precautionary statements
P234: Keep only in original container.
P260: Do not breathe fumes.
P264: Wash hands and face thoroughly after handling.
P280: Wear protective gloves/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN: Take off immediately all contaminated clothing. Rinse affected area with water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390: Absorb spillage to prevent material damage.
P405: Store locked up
P406: Store in corrosive resistant container with resistant inner liner.
P501: Dispose of contents/container in accordance with local, regional, national, international regulations.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions
Sodium Hydroxide (NaOH)	1310-73-2	50%
Water	7732-18-5	50%

SECTION 4: FIRST AID MEASURES

Swallowed Rinse/ drink mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention if irritation, discomfort or vomiting persists.

Eye	Rinse with plenty of water at least for 15 minutes. Remove contact lenses if present and easy to do. Seek medical assistance if symptoms persist.
Skin	Remove contaminated clothing and wash before re-use. Wash affected areas with copious quantities of water immediately. If irritation occurs, seek medical advice.
Inhaled	Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position in fresh air.
Advice to Doctor	Treat symptomatically based on individual reactions of patient and judgement of doctor.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Most important symptoms and effect, both acute and delayed
Irritation, burns, shortness of breath and more.

Indication of any immediate medical attention and special treatment needed
If seeking medical attention, provide SDS document to physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions	Product is not combustible and does not burn, but fire or heat will produce irritating, poisonous, and or corrosive gases.
Extinguishing Media	Use extinguishing media most appropriate for the surrounding fire. For example, dry chemical, CO2 or water spray.
Hazards Products of Combustion	Can produce toxic fumes in fire.

Special Protective Precautions & Equipment for Fire fighters' Protective equipment

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment. At high temperatures under fire conditions, it may produce toxic or irritating fumes. Structural firefighter's uniform is not effective for these materials.

Hachem Code	2W

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and Emergency Procedures

Always wear protective equipment when handling the substance and ensure adequate ventilation. Keep unprotected people away. Avoid breathing vapour and contact with eyes and skin.

Eliminate all sources of ignition. Increase ventilation. Do not allow product to reach drains, sewers, or waterways. If the product does enter a waterway, advise the Environment Protection Authority or your local Waste Management.

Environmental precautions

Prevent from reaching drains, sewers, or waterways. Collect contaminated soil for characterization per section 13.

Methods and Materials for Containment and Clean Up

Wear protective clothing. Clean up spill. Transfer to a suitable, labeled waste container and hold for safe disposal. Wash spill area with plenty of water after removing the spill. If necessary, use trained response staff/contractor.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Ensure an eye and safety shower are available and ready for use in case of an emergency. To avoid contact with eyes, skin and clothing, wear protective clothing, safety glasses and or face protection. Do not breathe vapours. Follow good hygiene procedures when handling substances. Do not eat, drink, smoke or use personal products when handling substances. Use only in well-ventilated areas. Collect spillage. When preparing solution, add caustic to water in small amounts to avoid boiling and splattering.

Conditions for Safe Storage including and incompatibilities

Store in a cool and dry place. Keep container tightly closed and in its original packaging. Store away from acids. Avoid physical damage to containers. Incompatible materials: Aluminum, tin and zinc. Corrosive to steel at elevated temperature.

Container Type

Store in original packaging as approved by manufacturer.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters Sodium Hydroxide 2mg/m3 according to Australia Workplace Exposure Standards for Airborne Contaminants.

Appropriate Engineering Controls Preferent use local exhaust ventilation to minimise the exposures.

Respiratory Protection Use suitable respiratory protective equipment when inadequate ventilation or where risk assessment shows air-purifying respirators are appropriate.

Protection of skin Appropriate personal equipment is required like protective overalls, safety footwear and gloves.

Eye Protection Safety Glasses and or face shield are recommended to prevent contact with eyes.

Work hygiene practices Do not eat, drink or smoke when using the substance. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

Biological Values No information available

Exposure Limits No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odor	Odorless
Vapor Pressure	No data available
Vapor Density	No data available
Boiling Point	142 degrees C (50% soln)
Melting Point	No data available
Solubilities	Soluble in water
Specific Gravity/ Relative Density	1.52 (50% Soln)
Flash Point	Not applicable
pH	> 12 as supplied
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Ignition Temperature	No data available
Specific Heat Value	No data available

Particle Size	Not applicable
Volatile Organic Compounds	Not applicable
Evaporation Rate	Not applicable
Viscosity	No data available
Percent Volatile	No data available
Octanol/Water partition coefficient	Not applicable
Saturated Vapor Concentration	No data available
Additional Characteristics	No data available
Flame Propagation/Burning rate of Solid Material	No data available
Reactions that release flammable Gases	Not applicable
Chemical formula	NaOH

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability Stable at recommended storage conditions.

Incompatible Materials Metals, strong acids, ally alcohol/ chlorides, water, nitro and organic halogen and chloro organic compounds.

Hazardous Decomposition products Sodium oxide

Possibility of hazardous reactions May react violently with strong acids. In contact with water, reaction may generate enough heat to ignite combustible materials. In contact with metals, reaction may produce flammable and explosive hydrogen gas. May react with organohalogen compounds to form spontaneously combustible compounds. May react explosively in contact with nitro and chloro organic compounds. May form explosive products with ammonia plus silver nitrate, benzene and benzene sulfonyl chloride, tetrahydrofuran, sodium tetrahydroborate, and trichlorophenol sodium salt plus methyl alcohol plus tichlorobenzene plus heat

Hazardous Polymerisation When correct storage and handling, no dangerous reactions.

Conditions to avoid Exposure to moisture. Exposure to air. Dust generation. Incompatibles.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

Ingestion	Corrosive. May cause severe burns.
Eye Corrosion/ Irritation	Causes severe eye damage.
Respiratory/ skin Irritation	Causes severe skin and respiratory irritation.
Single Target Organ Toxicity (STOT) single expose	No information available
Single Target Organ Toxicity (STOT) repeat expose	No information available
Carcinogenicity	No information available
Gem Mutagenicity	No information available
Reproductive Toxicity	No information available
Aspiration toxicity	No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Toxicity to fish: LC50- Gambusia affinis 125mg/L 96h
Toxicity to daphnia and other aquatic invertebrates: EC50- Ceriodaphnia 40.4mg/L 48h
Toxicity to bacteria: EC50 Photobacterium phosphoreum 22mg/L 15min

Environmental fate Very toxic to aquatic life

Persistence/ degradability Not applicable

Mobility in Soil No information available

Bioaccumulation Potential No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Disposal in accordance with regional, national and international regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number 1823
Shipping Name Sodium Hydroxide, liquid
Dangerous Goods Class 8
Subsidiary Risk No data available

Pack Group	II
Hazchem Code	2W
Special precautions for user	No data available

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST)	6

SECTION 16: CONTACT INFORMATION

Any advice, recommendation, information, assistance, or service provided by Viva Blu in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer of any liability on the part of Viva Blu. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

Craig Mair
Managing Director

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