Safety Data Sheet

Arctic Blue

1. Identification of the substance/mixture and supplier

Product Name	Arctic Blue
Other names	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains DISODIUM TRIOXOSILICATE)
Recommended Uses	Extra heavy duty laundry powder
Supplier **Street address**	Hygiene Technologies Ltd 28 Rangitane Road, Whakatu, Hastings 4172 New Zealand
Freephone Number **Telephone Number** **Facsimile** **Email**	0800 732 525 (06) 876 4111 (06) 878 3802 info@hygienetech.co.nz
Emergency Telephone	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

2. Hazards Identification

Dangerous Goods	Classified as a Dangerous Good according to NZS5433:2020 "Transport of Dangerous Goods on Land". Dangerous Goods Class: 8 (Corrosive), Packing Group III
Hazardous Substances	Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.
Signal Word	**DANGER**
Hazard Classifications	Acute Toxicity (Oral) – Category 4 Skin Corrosion – Category 1C Eye Damage – Category 1 Skin Sensitisation – Category 1



Hazard Statements	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary Statements	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts. Wear protective gloves, clothing and eye protection. Contaminated work clothing should not be allowed out of the workplace.
Response Statements	IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see Section 4 of this SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.

Storage Store locked up, in accordance with local regulatory requirements.

Disposal Dispose of contents/container in accordance with local regulations.

3. Composition/Information on Ingredients

Contents	CAS Number	Proportion
Sodium carbonate	497-19-8	10-30%
Disodium trioxosilicate pentahydrate	10213-79-3	10-40%
Triphosphoric acid, penta sodium salt	7758-29-4	<30%
Water and ingredients that are not hazardous at the concentrations used	NA	to balance

4. First Aid Measures

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor Have product container or label at hand. Get medical advice/attention if you feel unwell.

Swallowed If swallowed do NOT induce vomiting. Rinse mouth with water. Give water to drink to achieve dilution. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTRE or doctor.

Eye Contact Immediately flush with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin Contact Effects may be delayed. If skin or hair contact occurs, remove contaminated clothing and flush skin with running water. If swelling, redness, blistering or irritation occurs, seek medical attention. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water and soap, if necessary. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering or irritation occurs, seek medical attention.

Inhaled Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor.

Advice to Doctor Treat symptomatically. Can cause corneal burns. Effects may be delayed.

5. Fire-fighting Measures

Specific Hazards Non-combustible material.

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).

Fire-fighting advice Non- combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Fire-fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing if risk of exposure to products of decomposition. Prevent the contamination of drains and waterways; absorb runoff with sand or similar.

Hazchem 2X

6. Accidental Release Measures

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (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 dust. Work up wind or increaseventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generatingdust. 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

7. Handling and Storage

Handling advice

Avoid eye contact and skin contact. Avoid inhalation of dust.

Storage advice

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 forspills.

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

8. Exposure Controls / Personal Protection

Workplace Exposure Guidelines
No value assigned for this specific material by Worksafe New Zealand.

Biological Limit Values
As per the WorkSafe New Zealand the ingredients in this material do not have a biological limit allocated.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Personal Protective Equipment
SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK.
Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated withthe work as identified by the risk assessment conducted. Wear safety shoes, overalls, gloves, safety glasses, dust mask. Available information suggests that gloves madefrom butyl rubber, natural rubber, nitrile rubber, neoprene, polyvinyl chloride (PVC) 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.

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 dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and Chemical properties

Physical state	Blue speckled powder
Odour	Citrus
Solubility	Completely soluble in water
Specific Gravity	Not available
Flash Point (^{0}C)	Not applicable
pH	12.1 (1% solution)
Freezing Point	Not available
Boiling Point	Not available
Vapour Pressure	Not available
Evaporation Rate	Not available

10. Stability and Reactivity

Stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperatures and sources of ignition.
Incompatible materials	Oxidising agents
Hazardous decomposition products	Oxides of carbon and nitrogen, smoke and other toxic fumes.

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 or overexposure occurs are:

Swallowed	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. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
Skin Contact	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skinsensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhaled	Material may be an irritant to mucous membranes and respiratory tract.

Toxicological Data

Inhalation	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients):LC50 > 5.0 mg/L.
Skin Contact	This material has been classified as non-hazardous. Acute toxicity estimate (based oningredients): >5,000 mg/Kg bw.
Ingestion	Acute toxicityestimate (based on ingredients): 2,000 - 5,000 mg/Kg bw.
Corrosion/Irritancy	The material is expected to be corrosive to ocular and dermal tissue.
Sensitisation	The material is expected to be a contact sensitiser.

12. Ecological information

Avoid contaminating waterways.

Aquatic toxicity (acute): This substance is expected to be slightly harmful to the aquatic environment. Acute toxicity estimate (based on ingredients): 10 - 100 mg/L

Aquatic toxicity (chronic): 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 chronictoxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

13. Disposal

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personalprotection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS. Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be handled ashazardous waste and sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

Special Precautions: The product is considered to be a hazardous waste because of its corrosivity. Emptied containers retain product residue and may therefore present hazards. Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements. Do not store food stuffs in used containers.

14. Transport information

Transport of Dangerous Goods Pictograms:



Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:2020 Transport of Dangerous Goods on Land.

UN No	3262
Class-primary	8 (Corrosive)
Packing Group	III
Proper Shipping Name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains DISODIUM TRIOXOSILICATE)
Hazchem Code	2X

Marine Transport

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

UN No	3262
Class-primary	8 (Corrosive)
Packing Group	III
Proper Shipping Name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains DISODIUM TRIOXOSILICATE)

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	3262
Class-primary	8 (Corrosive)
Packing Group	III
Proper Shipping Name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (contains DISODIUM TRIOXOSILICATE)

15. Regulatory Information

ERMA (NZ) Approval Code	HSR 002526
Group Standard	Industrial and Institutional Cleaning Products (Corrosive) Group Standard 2020
Classifications	Acute Toxicity (Oral) – Category 4 Skin Corrosion – Category 1C Eye Damage – Category 1 Skin Sensitisation – Category 1

For more information refer to the ERMA website: www.epa.govt.nz

16. Other information

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. The User is responsible to evaluate all available information when using the product for any particular use and to comply with all the current legislation.

END OF SDS