SAFETY DATA SHEET

Sodium Glucoheptonate 50%

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Sodium Glucoheptonate 50%**
Product code:	
Recommended use of the chemical and restrictions on use:	Used in cleaning solutions, micro nutrient applications and as an additive in concrete mixtures. No known restrictions.
Chemical family:	Mixture.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635 Toronto, ON, M1V 5K2 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical:	This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Hazard classification:	Not applicable
Label elements:	Not applicable
Signal word:	Not applicable
Hazard statements:	Not applicable
Precautionary statements:	Not applicable
General:	Not applicable As a part of good industrial hygiene and safety practices, use skin and eye protection while using this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	**CAS Number**	**Concentration (%)**
Sodium Glucoheptonate	31138-65-5	50
Water	7732-18-5	50

Concentrations are shown as ranges due to batch variation.

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed:

Sever eye irritation. Symptoms may include stinging, tearing redness, swelling, and blurred vision.
Indication of any immediate medical attention and special treatment needed:
Provide general supportive measures and treat symptomatically. Keep victim under observation.
Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	
Suitable	Water fog. Foam Dry chemical powder. Carbon dioxide.
Unsuitable	Do not use water jet as this will spread the fire.
Special hazards arising from the substance:	During fire, gases hazardous to health may be formed.
Hazardous thermal decomposition products:	During fire, gases hazardous to health may be formed.
Special protective actions for fire-fighters:	Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters:	Self-Contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. War appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up:	Small spill: Stop leak if without risk. Move containers from spill area. Mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613) 996-6666.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage:	Store in original tightly closed container. Store away from incompatible materials (see section 10 of SDS)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	**Exposure limits**
Cobalt nitrate	No exposure limits noted for ingredient(s)

Engineering controls:	Provide eyewash station. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.
Individual protection measures:	Eyes/face: Wear chemical goggles. Do not get in eyes. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Skin: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Respiratory: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear. Liquid. Dark amber/brown.
Odor:	Sweet ammonia.
Odor threshold:	Not available.
pH:	5.5 – 11.0
Melting/Freezing point:	-20°C
Boiling point:	117°C
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not Applicable..
Upper and lower flammability limits:	Not applicable.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	1.26
Solubility:	Soluble in water, hot or cold.
Partition coefficient n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability:	Stable.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure:	SKIN AND EYES: Causes serious eye irritation. INHALATION: No adverse effects due to inhalation are expected. INGESTION: Expected to be a low ingestion hazard.
Potential health effects (acute):	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.
Delayed and immediate effects, chronic effects from short and long term exposure:	
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Classification:

Product	**OSHA**	**IARC**	**NTP**
Sodium Glucoheptonate	-	-	-

Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Sensitization:	There are no data available on the mixture itself.

Toxicological effects:

Acute toxicity estimate:

Product	**Result**	**Species**	**Dose**	**Exposure**
Sodium Glucoheptonate 50%	LD50 oral	Rat	4000 mg/kg est.	-
	NOAEC	Rat	2000 mg/kg est.	

Aspiration hazard: No data available.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity Not available.

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil:	Not available.

Product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	Not Regulated for Transporation
UN proper shipping name:	0
Transport hazard class:	0
Packing group:	0
Environmental hazard:	No.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

Canada inventory (DSL): All components are listed.

SECTION 16: OTHER INFORMATION

Revision date: August 30, 2023
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Disclaimer

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