

SAFETY DATA SHEET

United States

Catalogue Number

Section 1. Identification Product name

HBSS, without Sodium Bicarbonate, 2X5L

SH30015.02

Other means of identification

tion Not available. Solid.

Relevant identified uses of the substance or mixture and uses advised against

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use. Not available.

Supplier / Manufacturer

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In case of emergency INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification **OSHA/HCS** status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. **Classification of the substance** Not classified. or mixture Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.2% **GHS label elements** Signal word No signal word. Hazard statements No known significant effects or critical hazards. Precautionary statements

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,	,
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name		%	CAS number
calcium chloride		<1.6	10043-52-4
magnesium sulphate		<1.15	7487-88-9
Any concentration shown as a ran	ao is to protect confidentiality or is a	lue to batch variation	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Most important symptoms/effects, acute and delayed Potential acute health effects Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Indestion No known significant effects or critical hazards. Over-exposure signs/symptoms Eye contact No specific data. Inhalation No specific data. Skin contact No specific data. Ingestion No specific data. Indication of immediate medical attention and special treatment needed, if necessary Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments No specific treatment. Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. See toxicological information (Section 11) Section 5. Fire-fighting measures Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides



Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.		
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
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 contain	inment and cleaning up		
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.		
Large spill	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits	None.
magnesium sulphate	None.
Biological exposure indices	
No exposure indices known.	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	Not applicable.
Burning time	Not available.
Burning rate	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosive (flammable) limits	Not applicable.
Vapor pressure	Not available.
Relative vapor density	Not applicable.
Relative density	Not available.
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not applicable.
Flow time (ISO 2431)	Not available.
Particle characteristics	
Median particle size	Not available.

Section 10. Stability and reactivity

Reactivity Chemical stability	No specific test data related to reactivity available for this product or its ingredients. The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Product/ingredient name calcium chloride	Result LD50 Oral	Species Rat	Dose 1 g/kg	Exposure -
Irritation/Corrosion Not available.				
<u>Sensitization</u> Not available.				
<u>Mutagenicity</u> Not available.				

Carcinogenicity



Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. of exposure

Potential acute health effects

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)
Acute toxicity estimates	_			
Numerical measures of toxicity				
Reproductive toxicity	No known significant effects or critical haz	ards.		
Mutagenicity	No known significant effects or critical hazards.			
Carcinogenicity	No known significant effects or critical haz			
General	No known significant effects or critical haz	ards.		
Potential chronic health effects Not available.				
Potential delayed effects	Not available.			
Potential immediate effects	Not available.			
Long term exposure				
Potential delayed effects	Not available.			
Potential immediate effects	Not available.			
<u>Short term exposure</u>				
Delayed and immediate effects a	nd also chronic effects from short and lo	ng term expos	sure	
Ingestion	No specific data.			
Skin contact	No specific data.			
Inhalation	No specific data.			
Eve contact	No specific data.			
Symptoms related to the physica	I, chemical and toxicological characteris	tics		
Ingestion	No known significant effects or critical haz			
Skin contact	No known significant effects or critical haz			
Inhalation	No known significant effects or critical haz			
Eye contact	No known significant effects or critical haz	ards		

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HBSS, without Sodium Bicarbonate	5120.0	6713.0	N/A	67.1	N/A	
calcium chloride	1000	N/A	N/A	N/A	N/A	
magnesium sulphate	500	1100	N/A	11	N/A	

Section 12. Ecological information

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<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
calcium chloride	Acute EC50 3130000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 270 mg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 52000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2110 mg/I Fresh water	Fish - Pimephales promelas	96 hours
magnesium sulphate	Acute EC50 704 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
-	Acute EC50 343.56 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 1215 mg/l Fresh water	Algae - Chlorella sp.	72 hours
	Acute IC50 4.4 mg/I Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 40 mg/l Fresh water	Fish - Mogurnda mogurnda - Larvae	96 hours
	Chronic IC10 43 mg/l Fresh water	Algae - Chlorella sp.	72 hours

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Inhalation (dusts and

mists) (mg/

	Chronic IC10 1.9 mg/l Fresh water Chronic NOEC 360 mg/l Fresh water	Aquatic plants - <i>Lemna aequinoctialis</i> Daphnia - <i>Daphnia magna</i> - Neonate	96 hours 3 weeks
Persistence and degradability Not available.			
Bioaccumulative potential Not available.			
<u>Mobility in soil</u>			
Soil/water partition coefficient (K oc)	Not available.		
Other adverse effects	No known significant effects or critical hazards.		

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information **DOT Classification TDG Classification Mexico Classification UN** number Not available. Not available. Not available. UN proper shipping name Not available. Not available. Not available. Transport hazard class(es) Not available. Not available. Not available. Packing group **Environmental hazards** No. No. No. Additional information ADR/RID IMDG ΙΑΤΑ **UN number** Not available. Not available. Not available. UN proper shipping name Not available. Not available Not available Transport hazard class(es) Not available. Not available. Not available. Packing group **Environmental hazards** No. No. No. Additional information Transport within user's premises: always transport in closed containers that are upright and Special precautions for user secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according to Not available. **IMO** instruments Proper shipping name Not available.

Section 15. Regulatory information

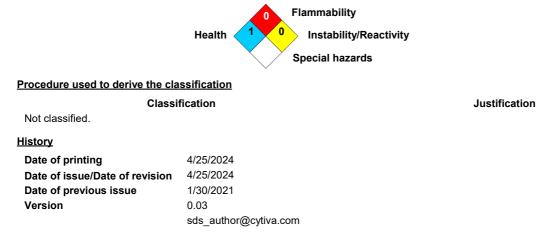
U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: disodium hydrogenorthophosphate

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed
SARA 302/304	



HBSS, without Sodium Bicar	bonate, 2X5L		SH
Composition/information	on ingredients		
No products were found.			
SARA 304 RQ	Not applicable.		
SARA 311/312			
Classification	Not applicable.		
Composition/information	on ingredients		
Name	%	Classification	
calcium chloride	<1.6	ACUTE TOXICITY (oral) - Category 4	
magnesium sulphate	<1.15	EYE IRRITATION - Category 2A ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4	
State regulations			
Massachusetts	None of the compo	onents are listed.	
New York	None of the compo	onents are listed.	
New Jersey	None of the compo		
Pennsylvania	None of the compo	onents are listed.	
California Prop. 65			
' International regulations Chemical Weapon Conve Not listed.		ning under California Prop. 65. <u>& III Chemicals</u>	
<u>Montreal Protocol</u> Not listed.			
Stockholm Convention on Not listed.	n Persistent Organic Poll	<u>utants</u>	
Rotterdam Convention or Not listed.	n Prior Informed Consent	<u>· (PIC)</u>	
UNECE Aarhus Protocol of Not listed.	on POPs and Heavy Meta	<u>ls</u>	
Inventory list			
United States	All components an	e active or exempted.	
Canada inventory	•	e listed or exempted.	
Section 16. Other in	formation		
National Fire Protection As	sociation (U.S.A.)		
	<u>ـ</u>		





Key to abbreviations	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)
	N/A = Not available
	UN = United Nations
References	Not available.
🖊 Indicates i	nformation that has changed from previously issued version.

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