Compliant SDS for GHS - Canada WHMIS 2015

SAFETY DATA SHEET



NRG KS

Section 1. Identification GHS product identifier : NRG KS Product code : Not available. Other means of : Not available. identification . Product type : Liquid. Relevant identified uses of the substance or mixture and uses advised against Identified uses Liquid Fertilizer.

Supplier's details	: ATP Nutrition Ltd 190 Agri Park Road Oak Bluff, MB R4G 0A5 Tel: 204-287-2023 Fax: 204-487-0027 Email: info@atpnutrition.ca Web site: www.atpnutrition.ca
Emergency telephone number (with hours of operation)	: For emergencies only. Call CHEMTREC: 1-800-424-9300 / +1 703-527-3887. (24/7)

Section 2. Hazard(s) identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statement	<u>s</u>
Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash thoroughly after handling.



Section 2. Hazard(s) identification

Response	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified (US)	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	
Other means of	
identification	

: Mixture

: Not available.

Ingredient name	% (w/w)	CAS number
Potassium thiosulphate	15 - 40	10294-66-3
Urea	10 - 30	57-13-6
Disodium tetraborate decahydrate	0.1 - 1	1303-96-4

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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. Continue to rinse for at least 20 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.



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Section 4. First aid measures		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
	is/effects, acute and delayed	
Potential acute health e	ffects	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/sy	v <u>mptoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No known significant effects or critical hazards.	
Indication of immediate r	nedical attention and special treatment needed, if necessary	
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 	
Specific treatments	: No specific treatment.	

See toxicological information (Section 11)

Protection of first-aiders

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.	

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.



NRG KS

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides 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 : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 nonemergency personnel". : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains **Environmental precautions** 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 Spill : Stop leak if without risk. Move containers from spill area. 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

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handli	ng
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. See also Section 8 for additional information on hygiene measures.



Section 7. Handling and storage

Conditions for safe storage,	: Do not store below the following temperature: 10°C (50°F). Store in accordance with
including any	local regulations. Store in original container protected from direct sunlight in a dry, cool
incompatibilities	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

United States

Occupational exposure limits

Ingredient name	Exposure limits	
Potassium thiosulphate	None.	
Urea	AIHA WEEL (United States, 7/2018).	
	TWA: 10 mg/m ³ 8 hours.	
Disodium tetraborate decahydrate	NIOSH REL (United States, 10/2016).	
	TWA: 5 mg/m ³ 10 hours.	
	ACGIH TLV (United States, 3/2019).	
	TWA: 2 mg/m ³ 8 hours. Form: Inhalable	
	fraction.	
	STEL: 6 mg/m ³ 15 minutes. Form: Inhalable	
	fraction.	

<u>Canada</u>

Occupational exposure limits

Ingredient name	Exposure limits
Urea	AIHA WEEL (United States, 7/2018).
	TWA: 10 mg/m ³ 8 hours.
Disodium tetraborate decahydrate	CA British Columbia Provincial (Canada,
	5/2019).
	TWA: 2 mg/m ³ 8 hours. Form: Inhalable
	STEL: 6 mg/m ³ 15 minutes. Form: Inhalable
	CA Ontario Provincial (Canada, 1/2018).
	TWA: 2 mg/m ³ 8 hours. Form: Inhalable
	fraction.
	STEL: 6 mg/m ³ 15 minutes. Form: Inhalable
	fraction.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 6 mg/m³ 15 minutes. Form: Inhalable
	fraction.
	TWA: 2 mg/m ³ 8 hours. Form: Inhalable
	fraction.
	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 1 mg/m ³ 8 hours.
	15 min OEL: 3 ppm 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 5 mg/m ³ 8 hours.
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Section 8. Exposure controls/personal protection

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.

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: chemical splash goggles.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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

Appearance		
Physical state	:	Liquid.
Color	:	Yellow.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	7 to 7.5
Melting/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.





Section 9. Physical and chemical properties

Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.36
Solubility	: Soluble in water.
Solubility in water	: Soluble.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: 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	: Reactive or incompatible with the following materials: oxidizing materials.
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	Result	Species	Dose	Exposure
Urea Disodium tetraborate decahydrate	LD50 Oral LD50 Oral		8471 mg/kg 2660 mg/kg	-

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available. Reproductive toxicity



Section 11. Toxicological information

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure	;	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>s</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	<u>ysi</u>	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	1	No known significant effects or critical hazards.
Delayed and immediate effect	<u>cts</u>	and also chronic effects from short and long term exposure

: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
<u>ects</u>
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.



Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Urea	8471	N/A	N/A	N/A	N/A
Disodium tetraborate decahydrate	2660	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Urea	Acute EC50 6573.1 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 3910000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 2 g/L Fresh water	Fish - Heteropneustes fossilis	30 days
Disodium tetraborate decahydrate	Acute EC50 1645 mg/L Fresh water	Crustaceans - Cypris subglobosa	48 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Urea	<-1.73	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 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. Care should be taken when handling empty containers that have not been cleaned or rinsed out. 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	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

AERG : Not applicable

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.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
	Clean Water Act (CWA) 307: Zinc disodium EDTA; Copper disodium EDTA		
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: 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			
Composition/information	on ingredients		
No products were found.			
SARA 304 RQ	: Not applicable.		
SARA 311/312			
Classification	: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A		
Composition/information	on ingredients		





Section 15. Regulatory information

Name	%	Classification	
Potassium thiosulphate	≥25 - ≤50	SKIN CORROSION/IRRITATION - Category 2	
Dia dium tatraharata	<0.2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	
Disodium tetraborate decahydrate	≤0.3	TOXIC TO REPRODUCTION - Category 1B	
State regulations			
Massachusetts		one of the components are listed.	
New York	None of the components are listed.		
New Jersey		lone of the components are listed.	
Pennsylvania	: None of the corr	ponents are listed.	
<u>California Prop. 65</u>			
This product does not r	equire a Safe Harbor	warning under California Prop. 65.	
Canadian lists			
Canadian NPRI	: None of the com	nponents are listed.	
CEPA Toxic substances	: None of the com	nponents are listed.	
International regulations			
Chemical Weapon Conven	tion List Schedules	I, II & III Chemicals	
Not listed.			
Montreal Protocol			
Not listed.			
Stockholm Convention on	Persistent Organic	Pollutants	
	Persistent Organic	Pollutants	
Stockholm Convention on Not listed.			
Stockholm Convention on Not listed. Rotterdam Convention on			
Stockholm Convention on Not listed. Rotterdam Convention on Not listed.	Prior Informed Cons	sent (PIC)	
Stockholm Convention on Not listed. Rotterdam Convention on	Prior Informed Cons	sent (PIC)	
Stockholm Convention on Not listed. Rotterdam Convention on Not listed.	Prior Informed Cons	sent (PIC)	
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Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list	Prior Informed Cons n POPs and Heavy M : All components	<u>sent (PIC)</u> <u>Aetals</u>	
Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list Australia	Prior Informed Cons n POPs and Heavy M : All components : At least one con	sent (PIC) <u>Aetals</u> are listed or exempted.	
Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list Australia Canada	Prior Informed Cons n POPs and Heavy M : All components : At least one con	sent (PIC) Metals are listed or exempted. aponent is not listed in DSL but all such components are listed in NDSL. are listed or exempted.	
Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list Australia Canada China	Prior Informed Cons n POPs and Heavy M : All components : At least one con : All components : Not determined.	sent (PIC) Metals are listed or exempted. aponent is not listed in DSL but all such components are listed in NDSL. are listed or exempted.	
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Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list Australia Canada China Europe Japan New Zealand Philippines Republic of Korea	Prior Informed Cons n POPs and Heavy M : All components : At least one com : All components : Not determined. : Japan inventor Japan inventor : Not determined. : Not determined. : Not determined.	Sent (PIC) Aetals are listed or exempted. nponent is not listed in DSL but all such components are listed in NDSL. are listed or exempted. y (ENCS): Not determined. y (ISHL): Not determined.	
Stockholm Convention on Not listed. Rotterdam Convention on Not listed. UNECE Aarhus Protocol o Not listed. Inventory list Australia Canada China Europe Japan New Zealand Philippines Republic of Korea Taiwan	Prior Informed Cons n POPs and Heavy M : All components : At least one com : All components : Not determined. : Japan inventor Japan inventor : Not determined. : Not determined. : Not determined. : Not determined.	sent (PIC) Aetals are listed or exempted. nponent is not listed in DSL but all such components are listed in NDSL. are listed or exempted. y (ENCS): Not determined. y (ISHL): Not determined.	



Section 15. Regulatory information

Viet Nam

: All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

	Justification	
SKIN CORROSION/IRRITA SERIOUS EYE DAMAGE/ E	Calculation method Calculation method	
<u>History</u>		
Date of issue/Date of revision	: 02/28/2021	
Date of previous issue	: 05/30/2019	
Version	: 3	
Prepared by	: KMK Regulatory Services Inc.	
Key to abbreviations		

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.