1. F	PRODUCT AND COM	PANY IDEN	ITIFICATI	ON
Product Code: Product Name: Reference #: Company Name: Emergency Contact:	114484-RM-GHS AUS 32 Urea Solution 805-114484 Excelda Manufacturing 12785 Emerson Dr. Brighton, MI 48116 MEDICAL EMERGENCY		Phone Nun (248)486-38 (888)314-40	300
Information:	DOT EMERGENCY		(800)424-93	800
	2. HAZARDS ID		(248)486-38	500
Skin Corrosion/Irritation, Ca				
GHS Signal Word: GHS Hazard Phrases: GHS Precaution Phrases: GHS Response Phrases: GHS Storage and Disposal Phrases:	Warning H316: Causes mild skin irrita No phrases apply. P332+313: If skin irritation o No phrases apply.		al advice/atte	ntion.
Potential Health Effects (Acute and Chronic):	May cause slight irritation to respiratory system. If heated toxic fumes which may cause	d, may generate a	ammonia or o	ther harmful or otherwise
Inhalation:	Inhalation of large amounts of	-		mbrane irritation.
Skin Contact: Eye Contact:	Prolonged or excusive conta Liquid or mist may cause dis slight excess redness or con	comfort in the ey		ent conjunctivitis, seen as
Ingestion: Medical Conditions Generall Aggravated By Exposure:	Ingestion of large amounts m y None known.	nay cause gastroi	intestinal irrita	tion.
3. CO	MPOSITION/INFORM	IATION ON	INGREDI	ENTS
CAS # Chemical Name 7732-18-5 Water 57-13-6 Urea		Concentration 66.0 -69.0 % 31.0 -33.5 %	RTECS # ZC0110000 YR6250000	Molecular Formula H2O H2NCONH2
Additional Chemical Information				

4. FIRST AID MEASURES	4.	FIRST AID	MEASURES
-----------------------	----	------------------	-----------------

	4. FIRST AID MEASURES				
Emergency and First Aid					
Procedures:					
In Case of Inhalation:	If irritation develops move patient to fresh air and monitor. If cough or difficulty in breathing develops, evaluate for respiratory tract irritation. If trained to do so, administe supplemental oxygen if needed and seek medical attention.				
In Case of Skin Contact:	Flush exposed area with copious amounts of water followed by washing area thoroughly with soap and water. Seek medical attention if irritation or pain persists.				
In Case of Eye Contact:	Flush eyes with copious amounts of tepid water for at least 15 minutes. Seek medical attentino if irritation, pain, swelling, excessive tearing, or light sensitivity persists.				
In Case of Ingestion:	If conscious, give the patient large quantities of water to drink and seek medical attention immediately. Do not give anything by mouth to an unconscious person.				
Signs and Symptoms Of Exposure:	Irritation, redness or other discomfort.				
Note to Physician:	Treat symptoms.				
	5. FIRE FIGHTING MEASURES				
Flash Pt:	> 200.00 F (93.3 C) Method Used: Pensky-Marten Closed Cup				
Explosive Limits:	LEL: No data. UEL: No data.				
Autoignition Pt:	No data.				
Suitable Extinguishing Media:	As appropriate for surrounding fire.				
Unsuitable Extinguishing Media:	None known.				
Fire Fighting Instructions:	As for all fires involving chemicals, responders should wear full bunker gear including a positive pressure self-contained breathing apparatus (SCBA). Cool containers with water spray to prevent the generation of harmful/toxic fumes which may generate pressure and cause containers to burst releasing the harmful fumes.				
Flammable Properties and Hazards:	Urea solution is not flammable, however, when heated, urea releases ammonia and when heated to decomposition it emits toxic fumes of nitrogen oxides (NOx), ammonia, and cyanuric acid.				
	Reacts with sodium hypochlorite or calcium hypochlorite to form the explosive nitrogen trichloride.				
	6. ACCIDENTAL RELEASE MEASURES				
Protective Precautions, Protective Equipment and Emergency Procedures:	As appropriate for size and nature of spill. See Section 8 for recommended PPE.				
Steps To Be Taken In Case Material Is Released Or Spilled:	Spill or Leak Measures: Spilled urea solution may cause slippery conditions. Keep unnecessary people away and isolate hazard area. Contain spill to prevent run-off. Recover as much liquid as possible, then removing remainder by absorbing with inert material. Place recovered liquid and absorbed liquid in container for proper handling and disposal.				
	7. HANDLING AND STORAGE				
Precautions To Be Taken in Handling:	Avoid eye and skin contact.				
Precautions To Be Taken in Storing:	Store in cool location.				
Licensed to Excelda Manufacturing, Inc.	GHS forma				

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
7732-18-5	Water		No data.	No data.	No data.
57-13-6	Urea		No data.	No data.	No data.
Respiratory Equipment (Specify Type):		Under expected use, no respiratory equipment is expected to be required. However, as urea will generate ammonia and carbon dioxide, respiratory equipment may be necessary in enclosed, or otherwise poorly ventilated areas as they can displace oxygen. Always check oxygen levels in any area that is not well ventilated. Use an ammonia filter respirator if ammonia concentrations exceed permissible amounts.			
		splashing liquid, a		goggles be used and if t used in conjunction with	•
Protective G	loves:	Impervious glove	s such as rubber or neo	prene should be worn.	
Other Protec	tive Clothing:	As needed to min	imize contact with skin.		
Engineering (Ventilation e		Adequate ventilation should be supplied.			
Work/Hygienic/MaintenanceWhen using do not eat, drink or smoke. Avoid contactPractices:Wash hands before breaks and at the end of workday. before re-use.					
			re breaks and at the en	u or workday. Wash cor	itaminated clothing
	9.	before re-use.	ND CHEMICAL	·	
		before re-use.		·	itaminateu ciotining
Physical Sta	tes:	before re-use. PHYSICAL A []Gas [X]	ND CHEMICAL	PROPERTIES	
Physical Sta Appearance	tes: and Odor:	before re-use. PHYSICAL A []Gas [X]	AND CHEMICAL Liquid [] Solid	PROPERTIES	
Physical Sta Appearance Melting Poin	tes: and Odor: t:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S	AND CHEMICAL Liquid [] Solid	PROPERTIES	
Physical Star Appearance Melting Poin Boiling Poin	tes: and Odor: t: t:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data.	AND CHEMICAL Liquid [] Solid	PROPERTIES	
Physical Star Appearance Melting Poin Boiling Poin Autoignition	tes: and Odor: t: t:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu	PROPERTIES	-
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt:	tes: and Odor: t: t: Pt:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data. No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe	PROPERTIES	-
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin	tes: and Odor: t: t: Pt:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe	PROPERTIES	-
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin Specific Grav Vapor Presso	tes: and Odor: t: t: Pt: mits:	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3 LEL: No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe UE	PROPERTIES	-
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin Specific Grav Vapor Presso mm Hg):	tes: and Odor: t: t: Pt: mits: vity (Water = 1):	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3 LEL: No data. 1.087 - 1.095	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe UE	PROPERTIES	-
Physical Stat Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin Specific Grav Vapor Press mm Hg): Vapor Densit	tes: and Odor: t: t: Pt: mits: vity (Water = 1): ure (vs. Air or ty (vs. Air = 1):	before re-use. PHYSICAL A [] Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3 LEL: No data. 1.087 - 1.095 No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe UE	PROPERTIES	-
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin Specific Grav Vapor Presso mm Hg): Vapor Densit Evaporation	tes: and Odor: t: t: Pt: mits: vity (Water = 1): ure (vs. Air or ty (vs. Air = 1): Rate:	before re-use. PHYSICAL A []Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3 LEL: No data. 1.087 - 1.095 No data. No data. No data. No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe UE	PROPERTIES	
Physical Star Appearance Melting Poin Boiling Poin Autoignition Flash Pt: Explosive Lin Specific Grav Vapor Presso mm Hg):	tes: and Odor: t: t: Pt: mits: vity (Water = 1): ure (vs. Air or ty (vs. Air = 1): Rate:	before re-use. PHYSICAL A []Gas [X] Colorless liquid, S No data. No data. No data. > 200.00 F (93.3 LEL: No data. 1.087 - 1.095 No data. No data. No data. No data.	AND CHEMICAL Liquid [] Solid Slight ammonia odor (pu C) Method Used: Pe UE at 20.0 C (68.0 F)	PROPERTIES	

	10. STABILITY AND REACTIVITY					
Reactivity:	Urea will form urea nitrate when mixed with nitric acid at low pH. Urea nitrate may					
	become unstable and/or explosive under certain conditions.					
Stability:	Unstable [] Stable [X]					
Conditions To Avoid - Instability:	Avoid hight heat/temperatures and contact with incompatible materials.					
•	To Hypochlorites such as sodium hypochlorite (bleach) or calcium hypochlorite, sodium					
Avoid:	nitrate, phosphorus pentachloride, nitrosyl or gallium perchlorate and nitric acid.					
Hazardous Decomposition Byproducts:	 or Urea solution forms ammonia, cyanuric acid, biuret, and/or nitrogen oxides (NOx) upon decomposition. 					
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]					
Conditions To Avoid - Hazardous Reactions:	None known.					
	11. TOXICOLOGICAL INFORMATION					
Toxicological Information:	No data available.					
Irritation or Corrosion:	Excessive contact may cause irritation.					
Sensitization:	Does not contain any known sensitizers at levels that may cause an allergic reaction.					
Chronic Toxicological Effects:	None known.					
Carcinogenicity/Other Information:	Does not contain any known carcinogens.					
CAS # Chemical Na	me NTP IARC ACGIH OSHA					
7732-18-5 Water	n.a. n.a. n.a. n.a.					
57-13-6 Urea	n.a. n.a. n.a. n.a.					
	12. ECOLOGICAL INFORMATION					
General Ecological Information:	Notify local health and wildlife officials and operators of any nearby water intakes of contamination or discharge into or leading to waterways.					
Persistence and	Urea is rapidly hydrolyzed to ammonia and carbon dioxide in environmental systems by					
Degradability:	the extracellular enzyme, urease, which originates from microorganisms and plant roots					
	13. DISPOSAL CONSIDERATIONS					
Waste Disposal Method:	Urea solution is not listed by the Federal EPA as a hazardous waste. Consult state/provincial and local environmental agencies for acceptable disposal methods. If permitted and uncontaminated, recover product may be use as a fertilizer.					
	14. TRANSPORT INFORMATION					
LAND TRANSPORT (US D						
DOT Proper Shipping I DOT Hazard Class: UN/NA Number:						

SAFETY DATA SHEET

AUS 32 Urea Solution

		15. REG	ULATORY	INFORMA	TION	
EPA SARA (S	uperfund Amendr	nents and Reauth	orization Act o	f 1986) Lists		
CAS #	Chemical Name	•		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7732-18-5	Water			No	No	No
57-13-6	Urea			No	No	No
Hazard Cate	I meets the EPA gories' defined le III Sections idicated:		Chronic (dela Fire Hazard	diate) Health Ha ayed) Health Ha ase of Pressure zard	zard	
CAS #	Chemical Name	•		Other US EPA o	r State Lists	
7732-18-5	Water			CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -
57-13-6	Urea				No; CWA NPDES: NR; CA PROP.65:	
Regulatory li	nformation:	TSCA: All ingre	edients are liste	ed on the US TS	SCA Inventory or	are otherwise exempt.
		SARA Title III:	No ingredients	are subject to r	eporting under SA	ARA 313.
		CERCLA Hazar	dous Substand	ces List: No ing	redients listed.	
Regulatory Information Statement:		PROP 65: This product is not known to contain any chemicals that would require disclosure under California Proposition 65.				
		The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risk in use of the material.				
		16. C	THER INF	ORMATIO	N	
Revision Dat	e:	01/15/2015				
	formation Abou		le.			
Company Po Disclaimer:	licy or	IMPLIED, EXCE MANUFACTUR SPECIFIC MAT	EPT THAT IS A ING. THE DA ERIAL DESIG	ACCURATE TO TA ON THIS SH NATED HEREI	THE BEST KNO HEET RELATES (N. EXCELDA MA	