



Issuing Date 21-Apr-2009

Revision Date 06-Sep-2012

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Urea 8M Solution

Product Code(s) E720

Recommended Use For Further Manufacturing Use Only Not for Human or Animal Drug Use

Company AMRESCO, LLC 6681 Cochran Road Solon, Ohio 44139	
Emergency Telephone Number	Chemtrec 1-800-424-9300
Company Phone Number E-mail Address	1-800-448-4442 info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification	Skin Irritant 2 Eye Irritant 2
Signal Word	Warning
Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary Statements	P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Urea	EEC No. 200-315-5	Not available	57-13-6	45-55	-

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen.
Ingestion	Clean mouth with water and afterwards drink plenty of water.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam.
Hazardous Combustion Products	Carbon oxides, Nitrogen oxides (NOx).
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Not sensitive.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Absorb on sand or vermiculite and place in closed containers for disposal. Wash spill site with soap solution and flush area with copious amounts of water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Showers Eyewash stations Ventilation systems.
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Product	s Carbon oxides. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Irritating to eye, skin and respiratory system.

Chemical Name LD50 Oral	LD50 Dermal	LC30 Initialation
Urea 8471 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity

No known effect based on information supplied.

Target Organ Effects Eyes, Skin, Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish		Microtox	Daphnia Magna (Water Flea)
Urea		LC50 16200-18300 mg/L Poecilia reticulata 96 h			EC50 > 10000 mg/L 24 h
Chemical Name		Log Pow			
Urea		= -1.59 25 °C			

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances		Organic olvents	Subst Whose Are Indica	mful tances Names to be ted on Label	Pollutio Release Transfe Registry ((II):	and er	Pollution Release and Transfer Registry (Clas I):	Substances
Urea	Not applicable	Not	applicable	Not ap	plicable	Not applic	able	Not applicable	e Not applicable
Component	ISHA - Harm Substance Prohibited Manufacturi Importing Transferring Supplying	es for ng, l, l, or	ISHA - Ha Substaı Requir Permis	nces ring	Class Listing	Chemical ification J (TCCL) - Chemicals	Inve	xic Release entory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Urea 57-13-6(45-55)	Not applicat	ble	Not appli	cable	Not a	pplicable	No	t applicable	Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade

No information available.

Canada

WHMIS Hazard Class D2B Toxic materials



16. OTHER INFORMATI	ON		
Issuing Date	21-Apr-2009		

Revision Date 06-Sep-2012

Revision Note No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS