

SAFETY DATA SHEET

Creation Date 17-Sep-2010

Revision Date 25-Apr-2019

Revision Number 4

1. Identification **Product Name** Urea Cat No. : AC327380000; AC327380010; AC327380050 CAS-No 57-13-6 **Synonyms** Carbamide **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use Uses advised against Details of the supplier of the safety data sheet **Company** Acros Organics **Fisher Scientific** One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients							
Component		CAS-No	Weight %				
Urea		57-13-6	>95				
	4. Firs	st-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute symptoms persist, call a physician.						
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.					
Inhalation	Move to fresh air. give artificial respir		y if symptoms occur. If not breathing,				
Ingestion	Do not induce vom	niting. Get medical attention if syr	nptoms occur.				
Most important symptoms and effects	None reasonably f	oreseeable.					
Notes to Physician	Treat symptomatic	ally					
	5. Fire-f	ighting measures					
Suitable Extinguishing Media			priate to extinguish surrounding fire.				
Unsuitable Extinguishing Media	No information ava	ailable					
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	upper No data available Lower No data available Sensitivity to Mechanical Impact No information available						
Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.							
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxide (CO ₂) Nitrogen oxides (NOx) 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.							
NFPA Health 0	Flammability 1	Instability 0	Physical hazards N/A				
		al release measures	-				
Personal Precautions Environmental Precautions			ve equipment. Avoid dust formation. Section 12 for additional ecological				
Methods for Containment and Clea Up	n Sweep up or vacu formation.	um up spillage and collect in suita	able container for disposal. Avoid dust				

	7 Handling and storage			
	7. Handling and storage			
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Protect from moisture.			
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.			
8. E	Exposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.			
Engineering Measures Personal Protective Equipment	None under normal use conditions.			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			
	9. Physical and chemical properties			

9. Physi	cal and chemical properties
Physical State	Solid
Appearance	White
Odor	Ammonia-like
Odor Threshold	No information available
рН	7.5-9.5 10% aq. solution
Melting Point/Range	131 - 135 °C / 267.8 - 275 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.25 mmHg @ 25 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	> 132°C
Viscosity	Not applicable
Molecular Formula	C H4 N2 O
Molecular Weight	60.06

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Protect from moisture.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component Informa									
	Component			LD50 Dermal		Inhalation			
Urea		LD50 = 8471 mg/kg(Ra	at)	Not listed		Not listed			
Foxicologically Syn Products	-	No information available							
Delayed and immed	late effects	as well as chronic effec	ts from short ar	nd long-term expo	osure				
rritation		May cause irritation	of respiratory tra	act					
Sensitization		No information avai	lable						
Carcinogenicity		The table below ind	licates whether e	ach agency has lis	ted any ingredient	as a carcinogen			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Urea	57-13-6	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information avai	lable						
Reproductive Effect	s	No information avai	No information available.						
Developmental Effe	cts	No information avai	No information available.						
Feratogenicity		No information avai	No information available.						
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information avai	No information available						
Symptoms / effects delayed	,both acute	and No information avai	No information available						
Endocrine Disrupto	r Informatio	No information available							
Other Adverse Effect	ther Adverse Effects The toxicological properties have not been fully investigated.								

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Urea	Not listed	LC50: 16200 - 18300 mg/L,	= 23914 mg/L EC50	EC50: > 10000 mg/L, 24h
		96h (Poecilia reticulata)	Photobacterium	(Daphnia magna Straus)
			phosphoreum 5 min	EC50: = 3910 mg/L, 48h

				Static (Daphnia magna)				
Persistence and Degradability	Persistence is unlikely		1					
Bioaccumulation/ Accumulation	No information available	No information available.						
Mobility	. Will likely be mobile in	e mobile in the environment due to its water solubility.						
Component			log Pow					
Urea			-1.59					
	13. Disposal	consider	ations					
aste Disposal Methods Chemical waste generators must determine whether a discarded chemical is class hazardous waste. Chemical waste generators must also consult local, regional, a national hazardous waste regulations to ensure complete and accurate classificat				local, regional, and				
	14. Transpo	ort inform	ation					
DOT TDG IATA	Not regulated Not regulated Not regulated							

Not regulated 15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Urea	57-13-6	Х	ACTIVE	-

Legend:

IATA IMDG/IMO

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Urea	57-13-6	Х	-	200-315-5	Х	Х	Х	Х	KE-35144

U.S. Federal Regulations

Not applicable
See section 2 for more information
Not applicable
Not applicable
Not applicable
Not applicable
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations	Not applicable			
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.			
Other International Regulations				
Mexico - Grade	No information available			
	16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date	17-Sep-2010			
Revision Date	25-Apr-2019			

25-Apr-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

Print Date

Revision Summary

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS