

 ;	Product Code:	Identification of the Substance/Mixture and of the		
 :	Floduct Code.			
;	Product Name:	10774 UTX (human recombinant)		
	Synonyms:	KDM6A; Ubiquitously Transcribed Tetratricopep	ntide Repeat X:	
	2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or veterinary use.			
.3	Details of the Supplier of t	-		
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108		
	Web site address:	www.caymanchem.com		
	Information:	Cayman Chemical Company	+1 (734)971-3335	
.4	Emergency telephone nun	nber:		
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300	
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887	
		Section 2. Hazards Identifica	ation	
	Classification of the Subst Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements:	, Category 3		
	Skin Corrosion/Irritation Serious Eye Damage/Ey	, Category 3		
	Skin Corrosion/Irritation Serious Eye Damage/Ey	, Category 3		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements:	, Category 3 e Irritation, Category 2		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin ir	, Category 3 e Irritation, Category 2 Warning ritation.		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin irr H319: Causes serious eye	, Category 3 e Irritation, Category 2 Warning ritation. e irritation.		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin irr H319: Causes serious eye GHS Precaution Phrases	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s:		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thore	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: pughly after handling.		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin irr H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective glassical states of the series of the serie	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: bughly after handling. oves/protective clothing/eye protection/face protectio	n}.	
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gle GHS Response Phrases	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: pughly after handling. poves/protective clothing/eye protection/face protectio :		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases P305+351+338: IF IN EYE	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: bughly after handling. oves/protective clothing/eye protection/face protectio		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gle GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing.	e Irritation, Category 2 Warning ritation. e irritation. s: bughly after handling. bves/protective clothing/eye protection/face protection : ES: Rinse cautiously with water for several minutes. I		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation	, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: bughly after handling. oves/protective clothing/eye protection/face protectio : ES: Rinse cautiously with water for several minutes. I		
	Skin Corrosion/Irritation Serious Eye Damage/Ey Label Elements: GHS Signal Word: GHS Hazard Phrases: H316: Causes mild skin in H319: Causes serious eye GHS Precaution Phrases P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation	A, Category 3 e Irritation, Category 2 Warning ritation. e irritation. s: bughly after handling. oves/protective clothing/eye protection/face protection : ES: Rinse cautiously with water for several minutes. I n occurs, get medical advice/attention. persists, get medical advice/attention.		



Revision: 06/04/2015

2.3	Adverse Human Health	Causes mild skin irritation.
	Effects and Symptoms:	Causes serious eye irritation.
		Material may be irritating to the mucous membranes and upper respiratory tract.
		May be harmful by inhalation, ingestion, or skin absorption.
		May cause respiratory system irritation.
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	UTX (human recombinant)	< 1.0 %	NA NA	No data available.
56-81-5 MA8050000	Glycerol	20.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320
7365-45-9 TL6809000	HEPES, free acid	1.19 %	230-907-9 NA	Skin Corr. 2: H315 Eye Damage 2: H319
7647-14-5 VZ4725000	Sodium chloride	0.88 %	231-598-3 NA	Eye Damage 2A: H319 STOT (SE) 3: H335 H336
7732-18-5 ZC0110000	Water	78.0 %	231-791-2 NA	No data available.

Section 4. First Aid Measures

4.1 Description of First Aid

4.1	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case of Skin Contact:	ct: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case of Eye Contact:	 Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. 					
	In Case of Ingestion:						
		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.					
5.2		Emits toxic fumes under fire conditions.					
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructions	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.					



	Section 6. Accidental Release Measures						
6.1	1 Protective Precautions, Avoid breathing vapors and provide adequate ventilation.						
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
6.2	Enviror	imental	Take steps to avoid	release into the environmen	t, if safe to do so.		
	Precaut	ions:					
6.3	Method	s and Material Fo	or Contain spill and col	lect, as appropriate.			
	Contair	ment and Cleani	ngTransfer to a chemic	al waste container for dispo	sal in accordance with loo	cal regulations.	
	Up:						
			Section 7.	Handling and St	orage		
7.1	Precaut	ions To Be Take	n Avoid breathing dust	/fume/gas/mist/vapours/spra	ay.		
	in Hand	lling:	Avoid prolonged or re	epeated exposure.			
7.2	Precaut	ions To Be Take	n Keep container tightly	/ closed.			
	in Stori	ng:	Store in accordance	with information listed on the	e product insert.		
		Sec	tion 8. Exposu	ire Controls/Perso	nal Protection		
8.1	Exposu	e Parameters:					
CAS	#	Partial Chemica	I Name	Britain EH40	France VL	Europe	
	NA	UTX (human rec	ombinant)	No data.	No data.	No data.	
56	-81-5	Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.	
736	5-45-9	HEPES, free acid	b	No data.	No data.	No data.	
764	7-14-5	Sodium chloride		No data.	No data.	No data.	
773	2-18-5	Water		No data.	No data.	No data.	
CAS	#	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits	
	NA	UTX (human rec	ombinant)	No data.	No data.	No data.	
56	-81-5	Glycerol		PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.	
736	5-45-9	HEPES, free acid		No data.	No data.	No data.	
764	7-14-5	Sodium chloride		No data.	No data.	No data.	
773	2-18-5	Water		No data.	No data.	No data.	
8.2	Exposu	re Controls:					
8.2.1	Engine	ering Controls	Use process enclosu	res, local exhaust ventilatior	n, or other engineering co	ntrols to control airborne	
	-	tion etc.):		ended exposure limits.			
8.2.2		al protection equ	-				
	-	etection:	Safety glasses				
		ive Gloves:					
Other Protective Clothing:Lab coat							
	-	tory Equipment	NIOSH approved res	pirator, as conditions warrar	nt.		
		/ Type): vaionio/Maintona	n Do not tako internallu				
	ce Prac		n Do not take internally	ilizing this material should b	e equipped with an even	ash and a safety shower	
	UE FIAC		Wash thoroughly after	-	o oquipped with an eyew	aon and a safety shower.	
			No data available.	······			
						Multi-region format	



				9. Physica		nicai Pl	operties		
9.1		nformation on Basic Physical and Chemical Properties							
	-	al States:		[]Gas [X]Liquid []Solid					
		ance and Odor:		A solution in 50 m	nM HEPES, pH 7	.4, containin	ng 150 mM soo	dium chloride a	and 20% glyce
	Melting			No data.					
	Boiling			No data.					
	Flash P			No data.					
	•	ation Rate:		No data.					
		ability (solid, gas)		No data available					
	-	ve Limits:		LEL: No data.		UEL: No	data.		
	-	Pressure (vs. Air o	or mm	No data.					
	Hg):								
	-	Density (vs. Air = [·]	-	No data.					
	-	c Gravity (Water =	-	No data.					
	Solubili	ity in Water:		No data.					
	Autoigr	nition Pt:		No data.					
9.2	Other In	formation							
	Percent	t Volatile:		No data.					
			Se	ection 10. S	stability and	Reactiv	vity		
0.1	Reactiv	ity:	No data	available.					
0.2	Stability	y :	Unstabl	e [] Stable	[X]				
0.3	Stability	y Note(s):	Stable i	f stored in accord	ance with informa	ation listed o	on the product	insert.	
	Polyme	rization:	Will occ	ur[] Will no	ot occur [X]				
10.4	Conditi	ons To Avoid:	No data	available.					
10.5	Incomp	atibility - Material	s strong b	bases					
	To Avo	id:	strong o	strong oxidizing agents					
10.6	Hazardo	ous	carbon	carbon dioxide					
	Decom	position or	carbon	arbon monoxide					
	Byprod	ucts:							
			Sec	ction 11. To	xicological	Informa	ation		
1.1	Informa	ition on	The tox	icological effects	of this product ha	ive not been	thoroughly st	udied.	
	Toxicol	ogical Effects:	Glycero	Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;					
	Chronic	onic Toxicological Glyce		Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen.					
	Effects	:	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
				ual entry in RTEC	•	nformation.			
		Glycero	I RTECS Number	r: MA8050000					
Carci	nogenicit	iy:	NTP? N	lo IARC Mor	nographs? No	OSHA Re	egulated? No		
CAS			mponents (Chemical Name)		NTP	IARC	ACGIH	OSHA	
	NA	UTX (human rec	ombinant)		n.a.	n.a.	n.a.	n.a.
	6-81-5	Glycerol				n.a.	n.a.	n.a.	n.a.
736	65-45-9	HEPES, free aci	id n.a.			n.a.	n.a.	n.a.	
764	7-14-5	Sodium chloride				n.a.	n.a.	n.a.	n.a.
7732-18-5 Water		Water				n.a.	n.a.	n.a.	n.a.



SAFETY DATA SHEET UTX (human recombinant)

		Section 12. Ecolo	gical Informat	tion			
12.1 Toxicit	y:	Avoid release into the environm	ent.				
		Runoff from fire control or dilution	on water may cause p	ollution.			
12.2 Persist Degrad	ence and No data available.						
-	umulative	mulative No data available.					
	y in Soil:	No data available.					
	s of PBT and vPvB						
assess							
12.6 Other a	dverse effects:	No data available.					
		Section 13. Dispos	sal Considerat	ions			
13.1 Waste	Disposal Method:	Dispose in accordance with loca	al, state, and federal r	regulations.			
		Section 14. Tran	sport Information	tion			
14.1 LAND	TRANSPORT (US I	DOT):					
-	er Shipping Name:	Not dangerous goods.					
DOT Haza							
UN/NA Nu							
	TRANSPORT (Euro						
	Shipping Name:	Not dangerous goods.					
UN Numb Hazard Cl							
	ass. RANSPORT (ICAO/I	ATA)-					
	A Shipping Name:	Not dangerous goods.					
Additional Tra		Transport in accordance with lo	cal state and federa	l regulations			
Information:				rogulationol			
		Section 15. Regul	atory Informa	tion			
EPA SARA (S	uperfund Amendm	ents and Reauthorization Act					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	UTX (human reco	ombinant)	No	No	No		
56-81-5	Glycerol		No	No	No		
7365-45-9	HEPES, free acid	l	No	No	No		
7647-14-5	Sodium chloride		No	No	No		
7732-18-5	Water		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists			
NA	UTX (human reco	ombinant)	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA		
56-81-5	Glycerol		CAA HAP,ODC: N Inventory; CA PR	o; CWA NPDES: No OP.65: No	; TSCA: Yes -		
7365-45-9	HEPES, free acid CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No						
7647-14-5	Sodium chloride		CAA HAP,ODC: N Inventory; CA PR	o; CWA NPDES: No OP.65: No	; TSCA: Yes -		
					Multi-region forma		



Page: 6 of 6

7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
Regulatory Information Statement:		This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR 1910.1200 and Regulation (EC)
		Section 16. Oth	er Information
Revision Date:		06/04/2015	
Additional Info	rmation About	No data available.	
This Product:	-		
Company Policy or Disclaimer:		currently available to us. Howev express or implied, with respect	is believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for