		Americhem Engineered Compounds			
		Safety Data Sheet			
	Fcoma	ass Compounds 1000TU and ZD Series			
	According to Federal Register	/ Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
SECTIO	N 1: Identification				
1(a)	Product I dentifier used on label				
	Ecomass Compounds:	1000TU and ZD Series			
	Form:	Plastic Compound (Polyether Block Amide) & Metallic Powder Mixture (Pellets)			
1(b)	Other means of identification				
	None				
1(c)	Recommended use of the chemical a	and restrictions on use			
	1. Uses: Thermoplastic Elastomer	for Injection Molding and Extrusion			
	2. Restrictions on Uses: None				
1(d)	Name, address, & telephone numbe	er of the chemical manufacturer, importer, or supplier			
	Americhem Engineered Compounds				
	20 Progress Drive				
	Morrisville, PA 19067 USA				
	215-736-1126				
1(e)	Emergency phone number				
	215-736-1126				
SECTIO	N 2: Hazard(s) Identification				
2(a)	Hazard Classification				
	(GHS-US):	Not classified as a hazardous substance or mixture.			
2(b)	Label Elements				
	Signal Word:	None			
	Pictogram:	None			
	Hazard Statements:	None			
	Supplemental Hazard Statement:	Processing may release vapors and/or fumes which cause eye, skin, and respiratory			
		tract irritation.			
2(c)	Hazards not otherwise classified				
	This material has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardou				
	exposure as shipped is minimal. However, some fumes may be released upon heating and the end-user (fabricator) must				
	take the necessary precautions (mechanical ventilation, respirator program, etc.) to protect his employees from exposure				
	which may cause eye, skin, and respiratory tract infection. Prolonged or repeated exposure may cause: headache,				
	drowsiness, nausea, weakness (severity of effects depends on extent of exposure). (See Section 8 - Exposure Controls /				
	Personal Protection) The following in	gredients are considered hazardous per OSHA 1910.1200:			
	1. Metallic Powder				
	2. Nuisance Dust				
2(d)	2. Nuisance Dust Ingredients with unknown toxicity				

	N 3: Composition / Informatio	re classified as non-hazardous and ch	emical disclosure	is not required by regulation(s)		
		s and metal powders are described b				
		lly identified, it is considered proprieta		13 Number(3).		
		cle is bound in a polymer matrix mixtu		or hazardous ovposuro as shippod is		
	minimal.		lie and potential i	or hazardous exposure as shipped is		
		a and/or ovast parsontage (concentr	tion) of composit	ion has been withheld as a trade secret.		
	The specific chemical dentity	y and/or exact percentage (concentra		ion has been withheld as a trade secret.		
	Name	Product Identifier	%	Classification (GHS-US)		
PEBA P	olyamide Alloy	(CAS No) 77402-38-1	< 100	Not classified		
Tungste	en	(CAS No) 7440-33-7	< 100	Not classified		
SECTIO	N 4: First Aid Measures					
4(a)	Description of First Aid Mea	isures				
	After Inhalation:	No known effects. Supply	fresh air. Consult	physician.		
	After Skin Contact:	No known effects. Wash c	ontacted skin. If	contact with molten product,		
		immediately flush with coo	l water. Do not pu	Ill solidified product off skin. Seek		
		medical treatment.				
	After Eye Contact:	No known effects. Rinse ev	es with water. If	contact with molten product,		
		immediately flush with coo	l water. Seek me	dical treatment.		
	After Ingestion:	No known effects. DO NO	Γ induce vomiting	. Seek medical treatment.		
4(b)	-	and effects, both acute and delayed				
	Symptoms/Injuries:	No known effects. Long te	rm skin contact co	ould cause skin dryness.		
4(c)		e medical attention and special treatn		•		
	-	No specific antidote. Consult physicia		edical treatment.		
SECTIO	N 5: Fire Fighting Measures					
5(a)	Suitable Extinguishing Med	ia				
	Water spray, Carbon dioxide	e (CO2), Foam. For large fires use foa	m, water spray, a	nd call for fire-fighting assistance.		
	Unsuitable Extinguishing M	edia				
		am, as it may scatter and spread fire				
5(b)	Specific hazards arising from the substance or mixture					
	Fire hazard:	Not flammable but will bur	n and the followin	g hazardous products of combustion car		
		occur: hydrogen cyanide (l	nydrocyanic acid)	(traces), hazardous organic compounds		
		and trace amounts of oxide	s of carbon, nitrog	gen, phosphorus, and sulfur.		
	Explosion hazard:	Static charge buildup can b	e a potential fire h	azard when used in the presence of		
		volatile, flammable vapors	-			
	Reactivity:	Non-reactive.				
5(c)	Advice for Fire Fighters	I				
	Precautions:	Use standard protective clo	thing for fire fight	ers. Self contained breathing apparatu		
				<pre><e and="" decomposition="" in="" pre="" products="" the<=""></e></pre>		
				ate fire fighting equipment after use.		
		event the material should t	Jum. Decontami	ate fire fighting equipment after use.		

SECTIO	N 6: Accidental Release	Measures	
6(a)	Personal precautions	s, protective equipment and emergency pr	ocedures
	General measures:	If spilled, may cause a fall	or slipping hazard. Avoid dust generation. Keep away
		from ignition sources. Ens	ure proper ventilation.
		Avoid dispersal of spilled r	naterial and runoff and contact with soil, waterways, drains
	Environmental:	and sewers. Prevent entr	r to sewers and public waters.
6(b)	Methods and materi	al for containment and cleaning up	
	Containment:	Prevent further leakage or	spillage if you can do so without risk. Ventilate the area.
		Shovel, scoop, sweep up o	r use industrial vacuum cleaner and return to original
		container. Products are no	on-hazardous waste. Proper disposal should be evaluated
		based on local, state, and f	ederal regulations/legislation or directives. Users must
		determine if a report is rec	uired to EPA for any amounts of this material disposed of
		or otherwise released into	the environment.
	References:	Refer to Sections 7, 8, and	13.
SECTIO	N 7: Handling and Stora	age	
7(a)	Precautions for Safe	Handling	
	Prevent generation o	f dust and avoid breathing dust. If necessa	ry, wear a dust mask. Avoid breathing processing fumes o
	vapors and use local	exhaust above processing areas. Wash ha	nds after use. Avoid eating, drinking and smoking in work
	areas. Handle in acc	ordance with good industrial hygiene and sa	fety practices. These practices include avoiding
	unnecessary exposur	e and removal of material from eyes, skin,	and clothing. Take precautionary measures against static
	-		endency to accumulate static charge during transport,
			scharges, handling the products in potentially flammable
		-	be taken at all times, in particular when emptying bags or
			harging. Static charge buildup can be a potential fire
		-	ures. Keep away from ignition sources. If product is
			must be evaluated. When processing these products,
			ing below these temperatures does not guarantee the
		•	dicated only for safety reasons (risk of fire and product
			lation of the polymer will start at lower temperatures
7(b)		ecific processing conditions. corage, including any incompatibilities	
7(0)			tside. Keep container dry. Keep in a cool, dry, well-
		-	revent container damage and subsequent spillage. Store
		-	es of the product. Products contain an antioxidant to aide in
	-		and storage conditions. Exposure to direct sunlight or
			s the antioxidant at an increased rate and may lead to self-
			C's) or palletized bags. Avoid storage under pressure or at
	-		. Do not store above 140 °F (60 °C). Do not store with
	alkalis, oxidizers or ac		
7(c)	Specific end use(s)		
	No additional informa	ation available.	
	ON 8: Exposure Controls		
8(a)	Exposure Control Lin	nits - PEBA Polyamide Alloy	
<u> </u>	_	Form	TWA (Time Weighted Average)
	ACGIH	Inhalable Particles	10 mg/m <sup>3</sup>
		Respirable Particles	3 mg/m <sup>3</sup>
	Ecompose Compound 10	00TU-7D Series V 5 02-28-2019 xlsx	Page 3 c

	OSHA Table Z-1		Form	PEL (Permissable Exposure Limit)		
	Limits for Air	Res	pirable Fraction	5 mg/m <sup>3</sup>		
	Contaminants		Total Dust	15 mg/m <sup>3</sup>		
				15 116/ 11		
			Form	TWA (Time Weighted Average)		
		Por		15 ppm		
	OSHA Table Z-3	Res	pirable Fraction	50 ppm		
		Total Dust				
		Res	pirable Fraction	5 mg/m <sup>3</sup>		
		I	Total Dust	15 mg/m <sup>3</sup>		
	Exposure Control Lin	its - Tungsten (	-			
			Form	TWA (Time Weighted Average)		
	ACGIH TLV		as W	5 mg/m <sup>3</sup>		
				STEL (Short Term Exposure Limit)		
			as W	10 mg/m <sup>3</sup>		
8(b)	Appropriate Enginee	ring Controls				
	Use local exhaust ver	itilation during p	processing to reduce expos	ures below above limits. When transferring products,		
	earth/ground all subs	equent equipm	ent to minimize charges th	at may develop.		
8(c)	Individual Protection	Measures				
	Personal protective e	quipment:	Gloves. Safety Glasses.	Protective Clothing.		
	Materials for protecti	ve clothing:	Standard issue work clothes, which may include apron, antistatic safety shoes or			
			boots as necessary.			
	Eye protection:		-	ice to avoid eye contact. Wear Safety glasses with side-		
			shields. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.			
	Skin:		Minimize skin contamina protective gloves is recor molten product. Wash ha	t releases vapors or fumes which may cause skin irritation. tion by following good industrial hygiene practice. Wearing nmended. Use heat protective gloves when handling hot, ands and contaminated skin thoroughly after contact with ors or after handling the material.		
	Respiratory protection	n:	if dust is generated, a par concentrations, a cartridg temperature processing: respirator manufacturer t application. Observe resp manufacturer. For emerg for significant exposure o approved full face positiv	oid breathing processing fumes or vapors. During handling: diculate pre-filter is recommended and for high airborne dust ge designed for nuisance dust is recommended. During high use local exhaust ventilation when available. Consult to determine appropriate type equipment for a given birator use limitations specified by NIOSH or the gency and other conditions where there may be a potential r where exposure limit may be significantly exceeded, use an re-pressure, self-contained breathing apparatus or positive- liary self-contained air supply. Respiratory protection <i>v</i> ith 29 CFR § 1910.134.		

A C 9(b) C 9(c) C 9(d) p	Physical state: Appearance/Form: Color: Odor: Odor threshold:		Solid Pellets; porous to dense
A C 9(b) C 9(c) C 9(d) p	Appearance/Form: Color: Odor: Odor threshold:		Pellets; porous to dense
9(b) C 9(c) C 9(d) p	Color: Ddor: Ddor threshold:		
9(c) C 9(d) p	Odor threshold:		Various: tan, copper, gray or black - dependent on filler material
9(c) C 9(d) p			Essentially odorless, may be faint odor
			Not determined
9(e) N	oH:		No data available
	Melting point:		318 °F (159 ℃)
F	Freezing point:		Not Applicable
9(f) B	Boiling point:		Not Applicable
9(g) F	Flash point:		Not determined
9(h) E	Evaporation rate:		Not Applicable, Solid
9(i) F	Flammability (solid, g	as):	See GHS Classification in Section 2
9(j) L	Upper / Lower Flamm	ability:	No data available
E	Explosive Limits:		Not determined
9(k) V	/apor pressure:		Not Applicable, Solid
9(I) V	/apor Density:		Not Applicable, Solid
9(m) R	Relative density:		Specific Gravity: 1 - 11
9(n) S	Solubility (water):		68 °F (20 °C) insoluble
S	Solubility (other):		Soluble in: phenols; metacresol; benzyl alcohol (when hot); formic acid
			(concentrate), and sulphuric acid (concentrate)
			Partly Soluble in: methylene chloride (dichloromethane)
9(o) P	Partition Coefficient:		No data available
	Auto-Ignition Temper	ature:	698 - 842 °F (370 - 450 °C) (Method: Standard ASTM D 1929-77 (B))
9(q) C	Decomposition tempe	rature:	572 - 662 °F (300 - 350 °C)
.,	Viscosity, Kinematic:		Not Applicable
v	viscosity, Dynamic:		Not Applicable
Other C	Oxidizing properties:		No data available
	0: Stability and Reac	tivity	
	Reactivity:		Non-reactive. The product is stable under normal handling and storage conditions.
	Chemical Stability:		Stable under ambient conditions. Hazardous polymerization does not occur.
	Possibility of Hazardo	us Reactions:	Non-reactive. The product is stable under normal handling and storage conditions.
10(d) C	Conditions to Avoid:		Avoid prolonged exposure to heat or UV light since this may affect product properties.
			Product will burn when exposed to continuous sources of ignition. See Hazardous
( ) )			Decomposition below.
	ncompatible Materia		Avoid contact with strong acids, alkalis, and oxidizing agents.
10(f) H	Hazardous Decompos	ition:	Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions. No hazardous decomposition under ambient temperatures. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is overheated, is smoldering, or catches fire. Thermal decomposition giving toxic, flammable, and / or corrosive products: ammonia, amino derivatives, hydrogen cyanide (hydrocyanic acid) (traces), hazardous organic compounds, and trace amounts of oxides of carbon, nitrogen, phosphorus, and sulfur.

111: Toxicological Information							
Routes of Exposure							
Aspiration hazard:	No deaths occurred. (Ra	at) LDO > 4,000 mg/kg					
Skin corrosion/irritation:	Not irritating. (Rabbit) I	rritation Index: 0/8. (4	⊦h)				
Serious eye damage/irritation:	Causes mild eye irritatio	on. (Rabbit)					
Respiratory or skin sensitization:	Not a sensitizer. Guinea	pig maximization test	. No skin allergy was observed.				
Symptoms	See Section 4						
Effects - Short and Long Term							
Corm Coll Mutagonicity:	Assessment in Vitro: N	o genetic changes we	re observed in a laboratory test using				
Gerni Cen Widtagenicity.	either bacteria or mice.						
Carcinogenicity:	Not classified; (No data	available)					
Toxicity							
Toxicity Overview:							
This product contains the following	g components which in their	pure form have the fo	bllowing characteristics:				
CAS-No.	Chemical Name	Effect	Target Organ				
7440-33-7	Tungsten	Systemic effects	Eyes, Skin, Respiratory system, blood				
/440-33-/		Systemic effects	and blood forming system.				
Additional Health Hazard Informa	ition:						
Tungsten 7440-33-7: Prolonged	or repeated breathing of this	material may result in	h chronic bronchitis. Exposure to freshly				
formed fumes from heated meta	l may cause "metal fume fev	ver".					
Acute Toxicity:	Not classified						
Reproductive Toxicity:	Not classified; (No data	Not classified; (No data available)					
Specific target organ toxicity (sing	gle Not classified; (No data	Not classified; (No data available)					
exposure):							
Specific target organ toxicity	Not classified; (No data	Not classified; (No data available)					
(repeated exposure):							
Listings							
IARC Group:	Not Listed	Not Listed					
112: Ecological Information							
Ecotoxicity	Not expected to be harr	nful to aquatic organis	sms.				
· · · · · ·							
		5					
other Adverse effects	NO UALA AVAIIADIE						
Where possible, recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in							
accordance with federal, state, and local regulations. Pigmented, filled, and/or solvent laden product may require special							
disposal practices in accordance with federal, state, and local regulations. Consult a regulatory specialist to determine							
	appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposa						
appropriate state or local reportin							
appropriate state or local reportin and other requirements listed in p	pertinent environmental perr						
appropriate state or local reportin and other requirements listed in p altering this material may make t	pertinent environmental perr his waste management info	rmation incomplete, ir	naccurate, or otherwise inappropriate.				
appropriate state or local reportin and other requirements listed in p altering this material may make t	pertinent environmental perr his waste management info	rmation incomplete, ir	additions to, processing of, or otherwise naccurate, or otherwise inappropriate. or otherwise different from federal laws				
	Routes of Exposure         Aspiration hazard:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitization:         Symptoms         Effects - Short and Long Term         Germ Cell Mutagenicity:         Carcinogenicity:         Toxicity         Toxicity Overview:         This product contains the followin         CAS-No.         7440-33-7         Additional Health Hazard Information         formed fumes from heated meta         Tungsten 7440-33-7:         Prolonged formed fumes from heated meta         Acute Toxicity:         Reproductive Toxicity:         Specific target organ toxicity (singexposure):         Listings         IARC Group:         12: Ecological Information         Ecotoxicity         Persistence and degradability         Bioaccumulative potential         Mobility in Soil         Other Adverse effects	Routes of ExposureAspiration hazard:No deaths occurred. (RaSkin corrosion/irritation:Not irritating. (Rabbit) ISerious eye damage/irritation:Causes mild eye irritatioRespiratory or skin sensitization:Not a sensitizer. GuineaSymptomsSee Section 4Effects - Short and Long TermAssessment in Vitro: Not either bacteria or mice.Germ Cell Mutagenicity:Assessment in Vitro: Not classified; (No dataToxicityNot classified; (No dataToxicity Overview:Not classified; (No dataToxicity Overview:Chemical Name7440-33-7TungstenAdditional Health Hazard Information:Additional Health Hazard Information:Tungsten 7440-33-7:Prolonged or repeated breathing of thisformed fumes from heated metal may cause "metal fume feedAcute Toxicity:Not classifiedReproductive Toxicity:Not classified; (No dataSpecific target organ toxicity (single exposure):Not classified; (No dataSpecific target organ toxicity (repeated exposure):Not classified; (No dataListingsIARC Group:Not expected to be harrPersistence and degradability Bioaccumulative potentialDoes not bioaccumulateMobility in SoilNo data availableOther Adverse effectsNo data availableOther Adverse effectsNo data available	Routes of Exposure         Aspiration hazard:       No deaths occurred. (Rat) LDO > 4,000 mg/kg         Skin corrosion/irritation:       Not irritating. (Rabbit) Irritation Index: 0/8. (A         Serious eye damage/irritation:       Not a sensitizer. Guinea pig maximization test         Symptoms       See Section 4         Effects - Short and Long Term       Assessment in Vitro: No genetic changes were either bacteria or mice.         Carcinogenicity:       Not classified; (No data available)         Toxicity       Not classified; (No data available)         Toxicity Overview:       Not classified; (No data available)         Toxicity Overview:       Tungsten         This product contains the following components which in their pure form have the for       CAS-No.         CAS-No.       Chemical Name       Effect         7440-33-7       Tungsten       Systemic effects         Additional Health Hazard Information:       Informed fumes from heated metal may cause "metal fume fever".         Acute Toxicity:       Not classified       Reproductive Toxicity:         Acute Toxicity:       Not classified; (No data available)         Specific target organ toxicity (single exposure):       Not classified; (No data available)         Specific target organ toxicity       Not classified; (No data available)         Specific target organ toxicity       <				

SECTION	14: Transport Inform	nation			
	In accordance with D	OT, this produc	ct is not regulated for transpo	ort.	
14(a)	UN Number:		None		
14(b)	UN Number Shipping	, Name:	None		
14(c)	Transport Hazard Cla	iss(es):	None		
14(d)	Packing Group:		None		
14(e)	Environmental Hazar	rds:	Not a marine pollutant		
14(f)	Transport in Bulk:		None		
14(g)	Special Precautions:		None		
SECTION	15: Regulatory Inform	mation			
US Feder	al Regulations				
	SARA - Section 302 E	-			
		nis product are	either not SARA Section 302	regulated or regulat	ted but present in negligible
	concentrations.				
	None	<del></del>		<b></b> ,	
					<b>I</b>
	SARA - Section 311/3	1			
	Tungsten	Acute health h	hazard, Chronic health hazard	b	
	ļ				<u> </u>
	SARA - Section 313 -				
				-	ical components with known CAS
		1	(De Minimis) reporting levels	1 1	
	Name	Pr	roduct Identifier	Weight %	SARA 313 - Threshold Values %
	None	<u>↓</u>		<b></b>	· · · · · · · · · · · · · · · · · · ·
	CEDCIA Comprohe			tion & Linkility Act	
	-		nental Response, Compensat		r not CERCLA regulated, regulated but
			, or regulated with no assigned	-	
	Name		Hazardous Substances R		CERCLA EHS RQs
	None			-15	
	NOTE	<del> </del>		<del> </del>	
	Clean Water Act			I	I
	Component	CWA -	CWA - Reportable	CWA - Toxic	CWA - Priority Pollutants
	None				
		<u> </u>	<u> </u>	<u> </u>	
	Clean Air Act - Not ar	pplicable			
	1	Unless specifi	cally identified in this sectior	. the components in	this product are not considered
	OSHA	hazardous by		,	p
			nazardous based on compone	ents	
		T T	<u> </u>	TT	
				1	

	Inventory Status European Inventory of Existing Com	mercial Chemical	EU, EINECS	Conforms to
	United States TSCA (Toxic Substance	es Control Act) Inventory	TSCA	The components of this product are al on the TSCA Inventory
	Canadian Domestic Substances List		DSL	All components of this product are on the Canadian DSL
	China. Inventory of Existing Chemica	al Substances Produced or	IECSC (CN)	Conforms to
	Imported in China		. ,	
	Japan. ENCS - Existing & New Chem	ical Substances Inventory	ENCS (JP)	Conforms to
	Japan. ISHL - Inventory of Chemical	Substances	ISHL (JP)	Conforms to
	Korea. Korean Existing Chemicals In	ventory	KECI (KR)	Conforms to
	Philippines Inventory of Chemicals a	nd Chemical Substances	PICCS (PH)	Conforms to
	Australian Inventory of Chemical Sul	ostances	AICS	Conforms to
US State	Regulations			
	New Jersey Right to Know	No components are subje	Ĩ	
		Chemical Name:		id, polymer with azacyclolridecan-2-one
	Pennsylvania Right to Know			lroomegahydroxypoly(oxy-1,4-
	-	CAS Number	77402-38-1	
	California Prop. 65		-	als known to the State of California to caus
		cancer, birth defects, or a	ny other reprodu	ctive defects.
Revision	I 16: Other Information Date: February 28, 2019			
Revision Version I				
Revision Version I	Date: February 28, 2019 Number: 05			
Revision Version I Ecomass	Date: February 28, 2019 Number: 05	  :S:		
Revision Version I Ecomass ABBREV	Date: February 28, 2019 Number: 05 ® is a registered trademark.		ods by Inland Wa	terways, as amended
Revision Version I Ecomass ABBREV	Date: February 28, 2019 Number: 05 ® is a registered trademark.	Fransport of Dangerous Goo		•
Revision Version I Ecomass ABBREV AND ADR	Date: February 28, 2019 Number: 05 ® is a registered trademark. /IATIONS / ACRONYMS / REFERENCE EU agreement for the International T	Fransport of Dangerous Goo Carriage of Dangerous Good	ls by Road, as an	•
Revision Version I Ecomass ABBREV AND ADR CAS	Date: February 28, 2019 Number: 05 ® is a registered trademark. IATIONS / ACRONYMS / REFERENCE EU agreement for the International 1 EU agreement for the International 0	Transport of Dangerous Goc Carriage of Dangerous Gooc n of the American Chemical	ls by Road, as an Society)	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS	Date: February 28, 2019 Number: 05 * is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C	ls by Road, as an Society)	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS	Date: February 28, 2019 Number: 05 <sup>®</sup> is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class	Transport of Dangerous Goo Carriage of Dangerous Gooo n of the American Chemical sification and Labelling of C ystem	ls by Road, as an Society)	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA	Date: February 28, 2019 Number: 05 * is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on	ls by Road, as an Society)	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS IATA ICAO	Date: February 28, 2019 Number: 05 <sup>®</sup> is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion	ds by Road, as an Society) hemicals, as ame	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG LCSO	Date: February 28, 2019 Number: 05 * is a registered trademark. IATIONS / ACRONYMS / REFERENCE EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of	Fransport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms	ds by Road, as an Society) hemicals, as ame	ended
Revision Version I Ecomass ABBREV AND ADR CAS GHS IATA ICAO IMDG LCSO MARPOL	Date: February 28, 2019 Number: 05 <sup>®</sup> is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organization International Maritime Code for Danant Lethal Concentration of <i>50</i> Percent of International Convention for the Present	Fransport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S	ds by Road, as an Society) hemicals, as ame	ended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG LCSO MARPOL MHLW	Date: February 28, 2019 Number: 05 * is a registered trademark. IATIONS / ACRONYMS / REFERENCE EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of International Convention for the Prevent Japanese Ministry of Health, Labor, a	Fransport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S	ds by Road, as an Society) hemicals, as ame	ended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG LCSO MARPOL MHLW NFPA 70	Date: February 28, 2019 Number: 05 * is a registered trademark. <b>INTIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of International Convention for the Prevention Japanese Ministry of Health, Labor, a National Fire Protection Association	Fransport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S	ds by Road, as an Society) hemicals, as ame	ended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG ICSO MARPOL MHLW NFPA 70 OE	Date: February 28, 2019 Number: 05 <sup>®</sup> is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of Japanese Ministry of Health, Labor, a National Fire Protection Association Oil Extended	Fransport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S	ds by Road, as an Society) hemicals, as ame	ended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG ICSO MARPOL MHLW NFPA 70 OE OEL	Date: February 28, 2019 Number: 05 * is a registered trademark. <b>INTIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of Japanese Ministry of Health, Labor, a 4 National Fire Protection Association Oil Extended Occupational Exposure Limit	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S and Welfare	ds by Road, as an Society) hemicals, as ame l hips, 1973, as an	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS HMIS IATA ICAO IMDG LCSO MARPOL MHLW NFPA 70 OE OEL RID	Date: February 28, 2019 Number: 05 <sup>®</sup> is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Convention for the Prevent Japanese Ministry of Health, Labor, at National Fire Protection Association Oil Extended Occupational Exposure Limit EU Standards Regulations Concernin	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S and Welfare	ds by Road, as an Society) hemicals, as ame l hips, 1973, as an	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS IATA ICAO IMDG ICSO MARPOI MHLW NFPA 70 OE OEL RID TLV	Date: February 28, 2019 Number: 05 is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of Japanese Ministry of Health, Labor, a 4 National Fire Protection Association Oil Extended Occupational Exposure Limit EU Standards Regulations Concernin Threshold Limit Value	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S and Welfare	ds by Road, as an Society) hemicals, as ame l hips, 1973, as an	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS IATA ICAO IMTA ICAO IMDG ICSO MARPOL MHLW NFPA 70 OE OEL RID TLV TWA	Date: February 28, 2019 Number: 05 (is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Convention for the Prevent Japanese Ministry of Health, Labor, a National Fire Protection Association Oil Extended Occupational Exposure Limit EU Standards Regulations Concernin Threshold Limit Value Time Weighted Average	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S and Welfare	ds by Road, as an Society) hemicals, as ame l hips, 1973, as an	nended
Revision Version I Ecomass ABBREV AND ADR CAS GHS IATA ICAO IMDG ICSO MARPOI MHLW NFPA 70 OE OEL RID TLV	Date: February 28, 2019 Number: 05 is a registered trademark. <b>IATIONS / ACRONYMS / REFERENCE</b> EU agreement for the International T EU agreement for the International C Chemical Abstracts Services (Division Globally Harmonized System of Class Hazardous Materials Identification S International Air Transport Association International Civil Aviation Organiza International Maritime Code for Dan Lethal Concentration of <i>50</i> Percent of Japanese Ministry of Health, Labor, a 4 National Fire Protection Association Oil Extended Occupational Exposure Limit EU Standards Regulations Concernin Threshold Limit Value	Transport of Dangerous Goo Carriage of Dangerous Goo n of the American Chemical sification and Labelling of C ystem on tion gerous Goods, as amended of Organisms vention of Pollutants from S and Welfare g the International Transpo	ds by Road, as an Society) hemicals, as ame l hips, 1973, as an rt of Dangerous (	nended

## DISCLAIMER:

The information is based on present knowledge. This does not constitute a guarantee for any product features or specifications. It does not establish a legal contractual relationship. The information, data, and recommendations are made to our reasonable ability in good faith and obtained from reliable sources. Completeness is not guaranteed. It is intended to describe the products for the purpose of Health, Safety, and Environmental requirements only. The Safety Data Sheet is guidance for product uses. Advice applies to the products as originally supplied. Where other ingredients are added in the processing of these products, it is the users responsibility to evaluate or consult on their safe handling and use. It is the responsibility of the user to comply with all Local, Federal, and International Legislation and Local Permits when using. Further, since the conditions and methods of use are beyond the control of Americhem Engineered Compounds, Americhem Engineered Compounds expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

We believe the information set forth in this document to be true and accurate, but any recommendations, statements, or suggestions made in the foregoing text are without any warranty or guarantee whatsoever, and shall establish no legal duty or responsibility on the part of the author(s) or their employer. Furthermore, nothing set forth above shall be construed as a recommendation to use any product in conflict with any existing patent rights.

Americhem Engineered Compounds for itself and the said author(s), expressly disclaims any and all liability for any damages or injuries arising out of any activities relating in any way to this publication. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.