

Versic 3.2 SDSUS	on S / PRD ,	Revision Date: 07/20/2016 / 0001		SDS Number: 0000097796	Date of last issue: 01/25/2016 Date of first issue: 02/28/2014		
SECT	SECTION 1. IDENTIFICATION						
P	Product	name	:	Eastman(TM) Turbo Oil 2389			
P	Product code		:	: 34360-00, E3436001, P3436000, P3436001, P3436002			
Manufacturer or supplier's details							
C	Company name of supplier		:	Eastman Chemical Company			
A	Address		:	200 South Wilcox Drive Kingsport TN 37660-5280			
Т	Telephone		:	(423) 229-2000			
E	Emerge	gency telephone number : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN For emergency transportation information, in the United call CHEMTREC at 800-424-9300 or call 423-229-2000.		ransportation information, in the United States:			
Recommended use of the chemical and restrictions on use							
R	Recomi	mended use	:	Lubricant			
Restrictions on use		:	None known.				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

Prolonged skin contact may defat the skin and produce dermatitis.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical Name	CAS-No.	Concentration (% w/w)
Tricresyl phosphate	1330-78-5	< 2.5
N-phenyl-1-naphthylenamine	90-30-2	< 1
N-Phenylbenzenamine reaction products with	68411-46-1	< 1
2,4,4-trimethylpentene		

SECTION 4. FIRST AID MEASURES

If inhaled

: Move to fresh air. If breathing is difficult, give oxygen. Consult a physician if necessary.

SAFETY DATA SHEET



Eastman(TM) Turbo Oil 2389

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In case of skin contact		 Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If symptoms persist, call a physician. 			
In case of eye contact		for at lea	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. 		
If swallowed		Do NOT	outh. ysician or poison control centre immediately. induce vomiting. <i>y</i> e anything by mouth to an unconscious person.		
	mportant symptoms fects, both acute and ed	matitis. Contact Inhalation	d skin contact may defat the skin and produce der- with hot product will cause thermal burns. n of thermal decomposition products may lead to effects including pulmonary edema.		
Notes	to physician	: Treat sy	nptomatically.		

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray Foam Dry powder Carbon dioxide (CO2)	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and fire.	spread
Specific hazards during fire- fighting	Hazardous combustion products carbon dioxide, carbon monoxide oxides of phosphorus	
Further information	In case of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating su water or the ground water system.	urface
Special protective equipment for firefighters	Wear an approved positive pressure self-contained br apparatus in addition to standard fire fighting gear.	eathing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Ventilate the area.
tive equipment and emer-		Material can create slippery conditions.
gency procedures		Use personal protective equipment.
		Local authorities should be advised if significant spillages

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		cannot be con	tained.	
Environmental precautions		: Avoid release to the environment.		
Methods and materials for containment and cleaning up		: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).		

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe vapours or spray mist. Use only in area provided with appropriate exhaust ventilation. Drain or remove substance from equipment prior to break-in or maintenance. Wear appropriate personal protective equipment.
Conditions for safe storage	: Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures :	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to con- ditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure lim- its have not been established, maintain airborne levels to an acceptable level.
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Personal protective equipment

Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Hand protection		
Material	•	Recommended gloves:
	-	
Material	:	Nitrile rubber
Remarks	:	Wear suitable gloves. Contact the glove manufacturer for
		specific advice on glove selection and breakthrough times for
		specific advice on glove selection and breakthrough times for



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		your use condit	ions.	
Eye protection		: Wear safety gla	asses with side shields (or goggles).	
Protective measures		-	: Ensure that eye flushing systems and safety showers are located close to the working place.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: amber
Odour	: No data available
Odour Threshold	: not determined
Melting point/freezing point	: -54 °C
Flash point	: 210 °C Method: Cleveland open cup
Evaporation rate	: not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: not determined
Relative density	: 0.95 (15.6 °C)
Density	: 950 kg/m3 (15.6 °C)
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n- octanol/water	: Not applicable
Viscosity Viscosity, kinematic	: 11.5 mm2/s (40 °C)
	3 mm2/s (100 °C)
Explosive properties	: Classification Code: Not classified
Oxidizing properties	: Not classified

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: None reasonably foreseeable.



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Chem	ical stability	: Stable under	normal conditions.	
Conditions to avoid		: Keep away from sources of ignition - No smoking.		
Incompatible materials		: Strong oxidizing agents		
Hazardous decomposition products		: Emits acrid s	moke and fumes when heated to decomposition.	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

_ .

Not classified based on available information.

Product:				
Acute oral toxicity	:	LD50 Oral (Rat): > 10,000 mg/kg Assessment: Not classified		
Acute inhalation toxicity	:	Acute toxicity estimate (Expert judgement): Exposure time: 4 h Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Read-across from a similar material		
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no acute dermal toxicity		
Components:				
Tricresyl phosphate:				
Acute oral toxicity	:	LD50 Oral (Rat): > 5,000 mg/kg		
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h		
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 10,000 mg/kg		
N-phenyl-1-naphthylenamine:				
Acute oral toxicity		LD50 Oral (Rat): 1,250 mg/kg		
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2,000 mg/kg		
Skin corrosion/irritation				
Not classified based on available information.				
Product:				

Species: Rabbit Exposure time: 24 h Assessment: Based on available data, the classification criteria are not met. Result: slight

Components:



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Tricresyl phosphate:

Species: Rabbit Exposure time: 24 h Assessment: Not classified as hazardous. Result: Non-irritating to the skin.

N-phenyl-1-naphthylenamine:

Species: Rabbit Assessment: Not classified Result: none

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit Result: slight Assessment: No eye irritation

Components:

Tricresyl phosphate: Species: Rabbit Assessment: Not classified

N-phenyl-1-naphthylenamine:

Species: Rabbit Result: slight Assessment: Not classified

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Test Type: Skin Sensitization Species: Humans Assessment: Does not cause skin sensitisation. Method: Human Repeat Insult Patch Test Remarks: Read-across from a similar material

Components:

Tricresyl phosphate: Test Type: Skin Sensitization Assessment: Not classified

N-phenyl-1-naphthylenamine:

Assessment: Skin sensitisation Result: sensitizing

Germ cell mutagenicity

Not classified based on available information.



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<u>Produ</u>	<u>ct:</u>	
Genoto	oxicity in vitro	: Test Type: Mutagenicity Metabolic activation: Read-across from a similar material Result: Based on available data, the classification criteria and not met.
Genoto	oxicity in vivo	: Test Type: Mutagenicity Result: Based on available data, the classification criteria an not met. Remarks: Read-across from a similar material
<u>Comp</u>	<u>onents:</u>	
	syl phosphate: oxicity in vitro	: Test Type: various Result: Based on available data, the classification criteria and not met. Remarks: Not classified
Genoto	oxicity in vivo	: Test Type: various Result: Based on available data, the classification criteria a
		not met.
Carcin	ogenicity	not met.
	nogenicity assified based on avai	
Not cla	assified based on avai	lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed
Not cla IARC	assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino
Not cla IARC OSHA NTP Repro	assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP.
Not cla IARC OSHA NTP Repro Not cla Produ	ductive toxicity assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino gen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP. lable information.
Not cla IARC OSHA NTP Repro Not cla Produ	ductive toxicity assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP.
Not cla IARC OSHA NTP Repro Not cla Produ	ductive toxicity assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino gen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP. lable information.
Not cla IARC OSHA NTP Repro Not cla <u>Produ</u> Effects	ductive toxicity assified based on avai	 lable information. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino gen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoge by NTP. lable information. Species: Rat

Components:



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	esyl phosphate: ts on fertility	:	Species: Rat	
		F	Remarks: Suspec	ted of damaging fertility.
Effect ment	ts on foetal develop-		Species: Rat Remarks: Suspec	ted of damaging the unborn child.
Repro sessi	oductive toxicity - As- ment		May damage the y.	unborn child. Suspected of damaging fertili-

STOT - single exposure

Not classified based on available information.

Product:

Exposure routes: inhalation (dust/mist/fume) Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

Tricresyl phosphate:

Assessment: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Not classified based on available information.

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

Tricresyl phosphate:

Assessment: Based on available data, the classification criteria are not met.

N-phenyl-1-naphthylenamine:

Assessment: Not classified

Repeated dose toxicity

Product:

Remarks: No known significant effects or critical hazards.

Components:

Tricresyl phosphate: Species: Rat NOEL: 300 mg/l



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	Aspiration toxicity									
No	Not classified based on available information.									
<u>Pr</u>	oduct:									
No	aspiration toxicity classifi	cation								
Tri No Ex	mponents: cresyl phosphate: t classified perience with human ex	posure								
	oduct:	Dementer New	- Lus							
Inr	alation	: Remarks: None	e Known.							
Sk	in contact	: Remarks: Prolo duce dermatitis	onged skin contact may defat the skin and pro-							
Ey	e contact	: Remarks: Cont not cause dam	act with the eyes may be very painful but does age.							
Ing	estion	: Remarks: None	e known.							

SECTION 12. ECOLOGICAL INFORMATION

Product:	
Toxicity to fish	 LC50 (Fish): Exposure time: 96 h Remarks: Not classified as hazardous. (limit of solubility in fresh water) Read-across from a similar material
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Remarks: Not classified as hazardous. (limit of solubility in fresh water) Read-across from a similar material
Toxicity to algae	 NOEC (Pseudokirchneriella subcapitata (algae)): Exposure time: 72 h Remarks: No toxicity at the limit of solubility (limit of solubility in fresh water) Read-across from a similar material
Toxicity to fish (Chronic tox- icity)	 NOEC (Fish): Remarks: No toxicity at the limit of solubility (limit of solubility in fresh water) Read-across from a similar material



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	v to daphnia and other invertebrates (Chron- ity)	 NOEC: Remarks: No toxicity at the limit of solubility (limit of solubility in fresh water) Read-across from a similar material 	
Compo	onents:		
	yI phosphate∶ ∉ to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.6 mg/l Exposure time: 96 h	
	v to daphnia and other invertebrates	: EC50 (Daphnia magna (Water flea)): 0.146 mg/l Exposure time: 48 h	
M-Facto icity)	or (Acute aquatic tox-	: 1	
	y l-1-naphthylenamin o v to fish	 : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.44 mg/l Exposure time: 96 h 	
	v to daphnia and other invertebrates	: EC50 (Daphnia magna (Water flea)): 0.30 - 0.68 mg/l Exposure time: 48 h	
Toxicity	v to bacteria	: EC50 (Bacteria): Exposure time: 3 h	
Persist	ence and degradabil	ty	
Produc	:t:		
	 radability	 Result: Readily biodegradable Biodegradation: 92.36 % Exposure time: 28 d Remarks: Read-across from a similar material 	
Biocher mand (: Remarks: No data available	
Chemic (COD)	al Oxygen Demand	: Remarks: No data available	
BOD/C	OD	: Remarks: No data available	
Bioacc	umulative potential		
Produc	<u>>t:</u>		
Bioaccu	umulation	: Remarks: Not applicable Mixture	
Compo	onents:		
	yl phosphate: umulation	: Bioconcentration factor (BCF): 2,000 Remarks: No information available.	



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	ion coefficient: n- ol/water	: Pow: 860,000 log Pow: 5.93	
Mobi	lity in soil		
Tricr Distri	oonents: esyl phosphate: bution among environ- al compartments	: log Koc: 4.31	
Othe	r adverse effects		
<u>Prod</u> Ozon	<u>uct:</u> e-Depletion Potential	5	FR Protection of Environment; Part 82 Pro-
		Substances Remarks: This pi tured with a Clas	pheric Ozone - CAA Section 602 Class I oduct neither contains, nor was manufac- s I or Class II ODS as defined by the U.S. ction 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Hazards : No SARA Hazards

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SARA	A 302		this material are subject to the reporting re- SARA Title III, Section 302.	
SARA	A 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
This p the U. This p Air Ac This p Accid This p	 Clean Air Act This product neither contains, nor was manufactured with a Class I or Class II ODS as defit the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 14 Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 14 Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 14 SOCMI Intermediate or Final VOC's (40 CFR 60.489). 			
This p Section This p Section This p 307	on 311, Table 116.4A. product does not contair on 311, Table 117.3. product does not contair	n any Hazardous Che n any toxic pollutants	stances listed under the U.S. CleanWater Act, micals listed under the U.S. CleanWater Act, listed under the U.S. Clean Water Act Section	
The c TSCA		oduct are reported in : On TSCA Invent	n the following inventories: tory	

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not listed
IECSC	: On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

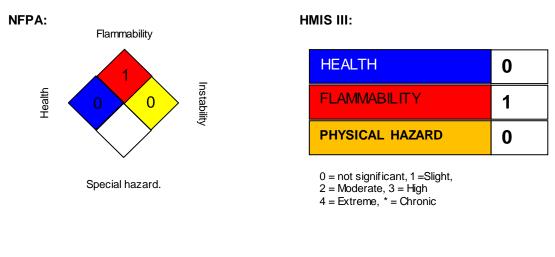
(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;



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EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

Further information



Sources of key data used to compile the Safety Data Sheet Revision Date : 07/20/2016



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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.

US / EN