

## Eastman(TM) Turbo Oil 25

PRD / SDSUS / Z8 / 0001

Version	Revision Date:	SDS Number:	Date of last issue: 11/27/2023
1.5	11/27/2023	150000094084	Date of first issue: 09/06/2016

## SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Turbo Oil 25

Product code : 34356-00, E3435601, P3435600, P3435601, P3435602, P3435604, P3435605, P3435606

**Manufacturer or supplier's details**

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive  
Kingsport TN 37660-5147

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

**Recommended use of the chemical and restrictions on use**

Recommended use : Lubricant

Restrictions on use : None known.

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin sensitization : Category 1

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements :

**Prevention:**

P261 Avoid breathing mist or vapors.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

Chemical name	CAS-No.	Concentration (% w/w)
Phenothiazine	92-84-2	< 1
N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene	68411-46-1	< 5
Tricresyl phosphate	1330-78-5	< 1
1,4-dihydroxy-9,10-anthracenedione	81-64-1	< 0.1

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

**SECTION 4. FIRST AID MEASURES**

- If inhaled : If breathed in, move person into fresh air.  
If breathing is difficult, give oxygen.  
Consult a physician if necessary.
- 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 : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention if symptoms occur.
- If swallowed : Rinse mouth.  
Call a physician or poison control center immediately.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.

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Most important symptoms and effects, both acute and delayed : Prolonged skin contact may defat the skin and produce dermatitis.  
Contact with hot product will cause thermal burns.  
Inhalation of thermal decomposition products may lead to adverse effects including pulmonary edema.  
May cause an allergic skin reaction.

Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting : Hazardous combustion products  
carbon dioxide, carbon monoxide  
oxides of phosphorus

Hazardous combustion products : No hazardous combustion products are known

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 surface water or the ground water system.

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Ventilate the area.  
Material can create slippery conditions.  
Use personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.

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

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practice.  
 Wear protective gloves/ protective clothing/ eye protection/  
 face protection.  
 Do not get in eyes.  
 Do not get on skin or clothing.  
 Wash thoroughly after handling.  
 Contaminated work clothing should not be allowed out of the  
 workplace.  
 Do not breathe vapors or spray mist.  
 Use only in area provided with appropriate exhaust ventilation.  
 Drain or remove substance from equipment prior to break-in  
 or maintenance.

Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phenothiazine	92-84-2	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA P0

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

## 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.

Eye protection : Safety glasses with side-shields  
 Safety goggles

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Color	:	amber
Odor	:	No data available
Odor Threshold	:	not determined
pH	:	not determined
Melting point/freezing point	:	-76 °F / -60 °C
Boiling point/boiling range	:	not determined
Flash point	:	475 °F / 246 °C
		Method: Cleveland open cup
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	0.995
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	
		not determined
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	23 - 30 mm <sup>2</sup> /s (104 °F / 40 °C)

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4.9 - 5.4 mm<sup>2</sup>/s (212 °F / 100 °C)

Explosive properties : Not classified

Oxidizing properties : Not classified

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical 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 smoke 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): &gt; 10,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3,160 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity**Components:****Phenothiazine:**

Acute oral toxicity : Assessment: Harmful if swallowed.

**N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene:**

Acute oral toxicity : LD50 Oral (Rat): &gt; 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): &gt; 2,000 mg/kg

**Tricresyl phosphate:**

Acute oral toxicity : LD50 Oral (Rat): &gt; 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): &gt; 10,000 mg/kg

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**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Species	:	Rabbit
Assessment	:	Not classified as hazardous.
Result	:	slight

**Components:****N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene:**

Species	:	Rabbit
Assessment	:	Not classified
Result	:	slight

**Tricresyl phosphate:**

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

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Species	:	Rabbit
Result	:	slight
Assessment	:	Not classified

**Components:****N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene:**

Species	:	Rabbit
Result	:	slight
Assessment	:	Not classified

**Tricresyl phosphate:**

Species	:	Rabbit
Assessment	:	Not classified

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Test Type	:	OECD 429: LLNA
Species	:	Mouse

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Assessment : May cause sensitization by skin contact.  
 Result : sensitizing

**Components:****Phenothiazine:**

Test Type : Skin sensitization  
 Assessment : May cause sensitization by skin contact.

**Tricresyl phosphate:**

Test Type : Skin Sensitization  
 Assessment : Not classified

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

Genotoxicity in vitro : Test Type: Mutagenicity  
 Result: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Test Type: Mutagenicity  
 Result: Based on available data, the classification criteria are not met.

**Components:****Tricresyl phosphate:**

Genotoxicity in vitro : Test Type: various  
 Result: Based on available data, the classification criteria are not met.  
 Remarks: Not classified

Genotoxicity in vivo : Test Type: various  
 Result: Based on available data, the classification criteria are not met.

**Carcinogenicity**

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

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**Product:**

Effects on fertility : Remarks: No data available

Reproductive toxicity - Assessment : Not classified, No toxicity to reproduction

**Components:****Tricresyl phosphate:**

Reproductive toxicity - Assessment : May damage the unborn child. Suspected of damaging fertility.

**STOT-single exposure**

Not classified based on available information.

**Product:**

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

**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.

**Repeated dose toxicity****Components:****Phenothiazine:**

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Tricresyl phosphate:**Species : Rat  
: 300 mg/l**Aspiration toxicity**

Not classified based on available information.

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**Product:**

Not classified

**Components:****Tricresyl phosphate:**

Not classified

**Experience with human exposure****Product:**

Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: May cause an allergic skin reaction. Prolonged skin contact may defat the skin and produce dermatitis.
Eye contact	:	Remarks: None known.
Ingestion	:	Remarks: None known.

**Further information****Product:**

Remarks : None known.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****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/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (algae)): Exposure time: 72 h Remarks: Not classified as hazardous. (limit of solubility in fresh water) Read-across from a similar material
Toxicity to fish (Chronic toxicity)	:	NOEC (Fish): Remarks: Not classified as hazardous. (limit of solubility in fresh water)

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Read-across from a similar material

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  
Remarks: Not classified as hazardous.  
(limit of solubility in fresh water)  
Read-across from a similar material

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Components:****Phenothiazine:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.579 mg/l  
Exposure time: 96 hToxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 0.66 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

**Tricresyl phosphate:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.6 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.146 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

**1,4-dihydroxy-9,10-anthracenedione:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability****Product:**

Biodegradability : Remarks: Expected to be biodegradable

Biochemical Oxygen Demand (BOD) : Remarks: No data available

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Chemical Oxygen Demand (COD) : Remarks: No data available

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: Mixture  
Not applicable

**Components:**

**Tricresyl phosphate:**

Bioaccumulation : Bioconcentration factor (BCF): 2,000

Partition coefficient: n-octanol/water : Pow: 860,000  
log Pow: 5.93

**Mobility in soil**

**Components:**

**Tricresyl phosphate:**

Distribution among environmental compartments : log Koc: 4.31

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

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

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**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.

**Domestic regulation**

**49 CFR**

Not regulated as a dangerous good

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**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization**SARA 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.**California Prop. 65**

This product does not require a warning for chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**The ingredients of this product are reported in the following inventories:**

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
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.

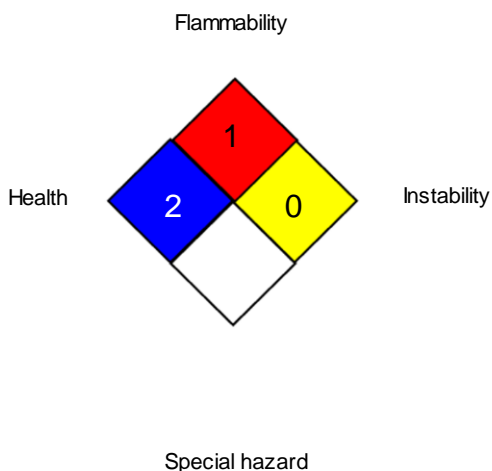
**SECTION 16. OTHER INFORMATION****Further information**

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## NFPA 704:



## HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

## Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average

AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative)

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tative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to : [www.EastmanAviationSolutions.com](http://www.EastmanAviationSolutions.com)  
compile the Material Safety  
Data Sheet

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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 / Z8