

## Eastman(TM) Turbo Oil 2380

|         |                |                   |                                 |
|---------|----------------|-------------------|---------------------------------|
| Version | Revision Date: | SDS Number:       | Date of last issue: 05/13/2019  |
| 1.2     | 01/07/2021     | 150000097793      | Date of first issue: 09/06/2016 |
| PRD     |                | SDSUS / Z8 / 0001 |                                 |

## SECTION 1. IDENTIFICATION

Product name : Eastman(TM) Turbo Oil 2380

Product code : 34359-00, P3435905, P3435903, P3435902, P3435901, P3435900, E3435902, P3435904

**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)**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

| Chemical name                                                     | CAS-No.    | Concentration (% w/w) |
|-------------------------------------------------------------------|------------|-----------------------|
| N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene | 68411-46-1 | 1 - 5                 |
| Tricresyl phosphate                                               | 1330-78-5  | < 3                   |
| N-phenyl-1-naphthylamine                                          | 90-30-2    | < 2.5                 |

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.

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- 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.
- 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.
- Notes to physician : Treat symptomatically.
- 

## SECTION 5. FIRE-FIGHTING 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 spread fire.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO2)  
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 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.
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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ventilate the area.  
Material can create slippery conditions.  
Use personal protective equipment.
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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).

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**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 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.  
Wear appropriate personal protective equipment.

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

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients 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 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 a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.  
Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.  
Protective equipment only chosen according to specific regulatory requirements after a risk assessment.  
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

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|                     |   |                                                                                                                                             |
|---------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------|
| Material            | : | Recommended gloves:                                                                                                                         |
| Material            | : | Nitrile rubber                                                                                                                              |
| Remarks             | : | Wear suitable gloves. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. |
| Eye protection      | : | Wear safety glasses 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                            |
| Color                                  | : | amber                             |
| Odor                                   | : | No data available                 |
| Melting point/freezing point           | : | -65 °F / -54 °C                   |
| Flash point                            | : | 475 °F / 246 °C                   |
|                                        |   | Method: Cleveland open cup        |
| Relative density                       | : | 0.98 (60.1 °F / 15.6 °C)          |
| Density                                | : | 980 kg/m3 (60.1 °F / 15.6 °C)     |
| Solubility(ies)                        |   |                                   |
| Water solubility                       | : | insoluble                         |
| Partition coefficient: n-octanol/water | : | Not applicable                    |
| Viscosity                              |   |                                   |
| Viscosity, kinematic                   | : | 23 - 30 mm2/s (104 °F / 40 °C)    |
|                                        |   | 4.9 - 5.4 mm2/s (212 °F / 100 °C) |

**SECTION 10. STABILITY AND REACTIVITY**

|                    |   |                                 |
|--------------------|---|---------------------------------|
| Reactivity         | : | None reasonably foreseeable.    |
| Chemical stability | : | Stable under normal conditions. |

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Possibility of hazardous reactions : None known.

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 (Rat): > 5,000 mg/kg  
Assessment: Not classified

Acute inhalation toxicity : Acute toxicity estimate: Exposure time: 4 h  
Assessment: Not classified  
Remarks: Read-across from a similar material

Acute dermal toxicity : Acute toxicity estimate: Assessment: Not classified  
Remarks: Read-across from a similar material

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Species : Rabbit

Exposure time : 24 h

Assessment : Not classified as hazardous.

Result : slight

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Species : Rabbit

Result : No eye irritation

Assessment : Not classified

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

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

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**Product:**

|           |   |                                |
|-----------|---|--------------------------------|
| Test Type | : | Skin sensitization             |
| Method    | : | Human Repeat Insult Patch Test |
| Result    | : | Not a skin sensitizer.         |

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

|                       |   |                                                                                                                                                                   |
|-----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test Type: Mutagenicity<br>Metabolic activation: Read-across from a similar material<br>Result: Based on available data, the classification criteria are not met. |
|-----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |   |                                                                                                                                                      |
|----------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vivo | : | Test Type: Mutagenicity<br>Result: Based on available data, the classification criteria are not met.<br>Remarks: Read-across from a similar material |
|----------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|

**Carcinogenicity**

Not classified based on available information.

**Product:**

|                   |   |          |
|-------------------|---|----------|
| Species           | : | Mouse    |
| Application Route | : | Dermal   |
| Remarks           | : | negative |

**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.

**STOT-single exposure**

Not classified based on available information.

**Product:**

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

**STOT-repeated exposure**

Not classified based on available information.

**Product:**

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

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**Aspiration toxicity**

Not classified based on available information.

**Routes of exposure****Product:**

|              |   |                                                                               |
|--------------|---|-------------------------------------------------------------------------------|
| Inhalation   | : | Remarks: None known.                                                          |
| Skin contact | : | Remarks: Prolonged skin contact may defat the skin and produce dermatitis.    |
| Eye contact  | : | Remarks: Contact with the eyes may be very painful but does not cause damage. |
| Ingestion    | : | Remarks: None known.                                                          |

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

|                                                                        |   |                                                                                                                                                                   |
|------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 (Fish):<br>Test substance: Read-across from a similar material<br>Remarks: Not classified as hazardous.<br>(limit of solubility in fresh water)              |
| Toxicity to daphnia and other aquatic invertebrates                    | : | NOEC:<br>Test substance: Read-across from a similar material<br>Remarks: Not classified as hazardous.<br><br>Remarks: (limit of solubility in fresh water)        |
| Toxicity to algae/aquatic plants                                       | : | NOEC:<br>Test substance: Read-across from a similar material<br>Remarks: Not classified as hazardous.<br>(limit of solubility in fresh water)                     |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Fish):<br>Test substance: Read-across from a similar material<br>Remarks: Not classified as hazardous.<br><br>Remarks: (limit of solubility in fresh water) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC:<br>Test substance: Read-across from a similar material<br>Remarks: Not classified as hazardous.<br>(limit of solubility in fresh water)                     |

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

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Biodegradability : Biodegradation: 92.36 %  
Exposure time: 28 d  
Remarks: Readily biodegradable

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: Mixture  
Not applicable

**Mobility in soil**

No data available

**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.  
It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.  
Collect in plastic or metal containers for disposal.  
Where possible recycling is preferred to disposal or incineration.  
Do not dispose of waste into sewer.  
Since emptied containers retain product residue, follow label warnings even after container is emptied.  
In accordance with local and national 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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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

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

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**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** : No SARA Hazards

**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 contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

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

**TSCA list**

No substances are subject to a Significant New Use Rule.

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

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

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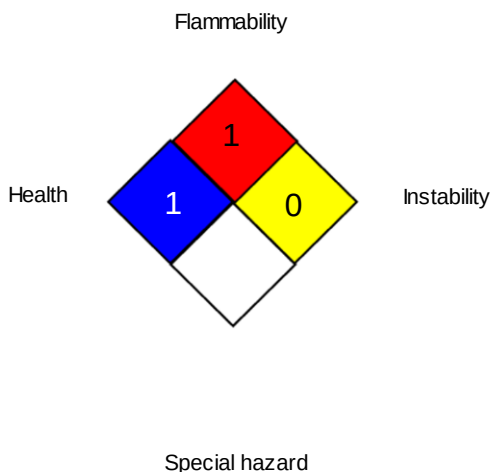
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## NFPA 704:



## HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 1 |
| 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

AICS - Australian Inventory of Chemical Substances; AIIC - 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) 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; TSCA - Toxic Substances

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Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 01/07/2021

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