

SECTION 1: Identification

1.1. Product identifier

Product form : Grease
Trade name : Aviation Thixo EP2
Product code : 3810-2, 3810-3, 3811-0, 3812-0, 3813-0
Other means of identification : Bell # C-561

1.2. Recommended use and restrictions on use

Recommended use : Professional uses, Grease, Aviation
Restrictions on use : No additional information available

1.3. Supplier

Supplier

Awsun Outcomes Inc
Bay 5, 409 38th Avenue NE
Calgary, Alberta, T2E 6R9
Canada
T 1 587-353-2000; Toll Free: 1-844-512-4093
info@awsum.global - www.awsum.global

1.4. Emergency telephone number

Emergency number : Toll Free 1-844-512-4093 M-F 8 am-4 pm (English only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Hazardous to the aquatic environment – Acute Hazard Category 3	H402	Harmful to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard statements (GHS CA) : H402 - Harmful to aquatic life
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS CA) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to a collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018

Name	Chemical name / Synonyms	Product identifier	% (w/w)	Classification (GHS CA)
2,6-di-tert-butyl-p-cresol	-	CAS-No.: 128-37-0	0.1 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Get medical attention if symptoms occur. Take off contaminated clothing and wash it before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur. When in doubt or if symptoms are observed, get medical advice.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures general : If medical advice is needed, have product container or label at hand.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Symptoms/effects after eye contact : Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.3. Specific hazards arising from the hazardous product

- Fire hazard : Presents no particular fire or explosion hazard. Burning produces stinking and toxic fumes.
- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulfur oxides (SOx). carbonyl halides. Metal oxides.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate the danger area. Fight fire from safe distance and protected location. Move containers from fire area if it can be done without personal risk. Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all contact with skin, eyes, or clothing.

6.2. Methods and materials for containment and cleaning up

- For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Caution : this product can cause the floor to be slippery. Move containers from spill area. Mechanically recover the product. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean contaminated surfaces with an excess of water. Dispose as hazardous waste.
- Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Avoid breathing vapors, mist. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Empty containers retain product residue and can be hazardous. Do not re-use container for any purpose.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, cool, well-ventilated area. Keep only in the original container. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Keep away from food, drink and animal feedingstuffs. Store away from direct sunlight or other heat sources. Refer to Section 10 on Incompatible Materials. Store in accordance with local, regional, national or international regulation.
- Incompatible products : Strong oxidizing agents.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,6-di-tert-butyl-p-cresol (128-37-0)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene (BHT) (2,6-Di-tert-butyl-p-cresol)
OEL TWA	10 mg/m ³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
VEMP (OEL TWAEV)	2 mg/m ³ IFV
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene (BHT) (2,6-Di-tert-butyl-p-cresol)
OEL TWA	2 mg/m ³ Inhalable (V - vapour and inhalable aerosol)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nunavut) - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (butylated hydroxytoluene or BHT)
OEL TWA	2 mg/m ³ (inhalable fraction and vapour)
OEL STEL	4 mg/m ³ (inhalable fraction and vapour)
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)

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2,6-di-tert-butyl-p-cresol (128-37-0)	
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (butylated hydroxytoluene or BHT)
OEL TWA	2 mg/m ³
OEL STEL	4 mg/m ³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene (BHT)
OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapour)
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (butylated hydroxytoluene or BHT)
OEL TWA	2 mg/m ³ (inhalable fraction and vapour)
OEL STEL	4 mg/m ³ (inhalable fraction and vapour)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

- Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available).
- Environmental exposure controls : Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material

Skin and body protection:

Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

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Respiratory protection:

Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste. Grease.
Color	: brown
Odor	: mild petroleum-like odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 308 °C (586 °F)
Freezing point	: > -20 °C (> -4 °F)
Boiling point	: 370 °C (698 °F)
Flash point	: 255 °C (491 °F, closed cup)
Auto-ignition temperature	: > 315 °C (> 599 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 0 kPa (20 °C, 68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.15 g/cm ³ (20 °C, 68 °F)
Solubility	: Not miscible in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

9.2. Other information

Additional information	: Viscosity, apparent: 485 P (0 °C, 32 °F, 200 s ⁻¹ , Poise)
Additional information	: Organic solvent: 0.5 %

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No dangerous reactions known. Hazardous polymerization: Will not occur.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified

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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

2,6-di-tert-butyl-p-cresol (128-37-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.
Other information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Harmful to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Aviation Thixo EP2	
Persistence and degradability	Biodegradability in water: D1264 – Water Washout – 1.28 % loss (79 °C, 175 °F).

2,6-di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Aviation Thixo EP2	
Bioaccumulative potential	No data available concerning bioaccumulation.

12.4. Mobility in soil

Aviation Thixo EP2	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : Not regulated
DOT
Transport hazard class(es) (DOT) : Not regulated
IMDG
Transport hazard class(es) (IMDG) : Not regulated
IATA
Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (TDG) : Not regulated
Packing group (DOT) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG
Not regulated

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. National regulations

2,6-di-tert-butyl-p-cresol (128-37-0)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Aviation Thixo EP2

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

2,6-di-tert-butyl-p-cresol (128-37-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 01-23-2024

Data sources : Supplier's safety documents. ECHA (European Chemicals Agency).

Training advice : Training staff on good practice.

Other information : SDS prepared by. H2 Compliance.

Full text of H-phrases:

H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), Canada

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.