# **SAFETY DATA SHEET**



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Alphasyn EP 460
Product code 462251-FR01
SDS no. 462251
Product type Liquid.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

General use of lubricants and greases in vehicles or machinery-Industrial General use of lubricants and greases in vehicles or machinery-Professional

Use of the substance/ Lubricant.

mixture For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

1.3 Details of the supplier of the safety data sheet

Supplier Castrol (UK) Limited

PO Box 352, Chertsey Road, Sunbury On Thames,

Middlesex,

TW16 9AW Orders/Enquiries: 0845 9645111 Technical Enquiries: 0845 9000209

E-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

**EMERGENCY** Carechem: +44 (0) 1235 239 670 (24/7)

**TELEPHONE NUMBER** 

#### SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

Signal word No signal word.

**Hazard statements** Hazard statements Hazard statements

**Precautionary statements** 

**Prevention** P273 - Avoid release to the environment.

Response Not applicable.

Storage Not applicable.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazardous ingredients Not applicable.

Supplemental label Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction.

elements

EU Regulation (EC) No. 1907/2006 (REACH)

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#### **SECTION 2: Hazards identification**

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

#### **Special packaging requirements**

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

#### 2.3 Other hazards

Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006,

Annex XIII.

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Defatting to the skin.

Other hazards which do not result in classification

Experimental data on one or more of the components has been used to determine all or part of the hazard classification of this product.

Specific Conc

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**Product definition** Mixture

Synthetic base stock. Proprietary performance additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
mines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2 CAS: -	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l M [Acute] = 1 M [Chronic] = 1	[1]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)- alkylamines	REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10%	[1] [2]
ethyl acrylate	REACH #: 01-2119459301-46 EC: 205-438-8 CAS: 140-88-5 Index: 607-032-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Carc. 2, H351 STOT SE 3, H335	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 3 mg/l Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C	[1] [2]

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# **SECTION 3: Composition/information on ingredients**

			Aquatic Chronic 3, H412	≥ 5%	
				STOT SE 3, H335: C	
Ethyl acrylate	EC: 205-438-8 CAS: 140-88-5 Index: 607-032-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	≥ 5% ATE [Oral] = 800 mg/kg ATE [Dermal] = 1800 mg/kg ATE [Inhalation (vapours)] = 9 mg/l Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% STOT SE 3, H335: C	[1] [2]
naphthalene	EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	<0.1	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	≥ 5% ATE [Oral] = 490 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1] [2]
Ethylene oxide	EC: 200-849-9 CAS: 75-21-8 Index: 603-023-00-X	<0.1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335	ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Propylene oxide	EC: 200-879-2 CAS: 75-56-9 Index: 603-055-00-4	<0.1	Flam. Liq. 1, H224 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 520 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
1,4-dioxane	EC: 204-661-8 CAS: 123-91-1 Index: 603-024-00-5	<0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 1B, H350 STOT SE 3, H335 EUH019 EUH066	-	[1] [2] [3]

See Section 16 for the full text of the H statements declared above.

This product does not contain any hazardous ingredients at or above regulated thresholds.

Substance classified with a health or environmental hazard

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention.

**Skin contact** Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before

reuse. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Get medical attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health effects

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# **SECTION 4: First aid measures**

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

**Ingestion** No known significant effects or critical hazards.

**Skin contact**Defatting to the skin. May cause skin dryness and irritation. Not considered a skin sensitizer.

Based on data available for this or related materials.

**Eye contact** No known significant effects or critical hazards.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing

media

Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

metal oxide/oxides

#### 5.3 Advice for firefighters

Special precautions for fire-fighters

Special protective equipment for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Noid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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# **SECTION 6: Accidental release measures**

#### 6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

Fut on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Fore in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

#### 7.3 Specific end use(s)

Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

No exposure limit value known.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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# **SECTION 8: Exposure controls/personal protection**

# Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived No Effect Level**

No DNELs/DMELs available.

#### **Predicted No Effect Concentration**

No PNECs available

#### 8.2 Exposure controls

# Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### **Individual protection measures**

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

# Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

# Eye/face protection Skin protection Hand protection

Safety glasses with side shields.

#### **General Information:**

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

## Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date

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# **SECTION 8: Exposure controls/personal protection**

technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### **Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

#### Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

#### Refer to standards:

Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405

Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

reduce emissions to acceptable levels.

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# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.

Colour Yellow. [Light]
Odour Not available.
Odour threshold Not available.
PH Not applicable.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

**Pour point** 

-36 °C

Flash point Closed cup: >180°C (>356°F) [Pensky-Martens]

Open cup: >200°C (>392°F) [Cleveland]

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Lower and upper explosion Not available.

limit

Vapour pressure Not available.

Vapour Pressure at 20°C Vapour pressure at 50°C mm Hg kPa Method kPa Method Ingredient name mm Hg Dec-1-ene, 0 0 ASTM E 1194-87 homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated Dec-1-ene, 0 0 ASTM E homopolymer 1194-87 hydrogenated Dec-1-ene, oligomers, hydrogenated EU A.4 1-Dodecene, polymer 0 n with 1-decene, hydrogenated 1-Dodecene, polymer O n EU A.4 with 1-decene and 1-octene, hydrogenated Decanoic acid, ester 0 with 2-ethyl-2-(hydroxymethyl)

Relative vapour density Not available.
Relative density Not available.

**Density** <1000 kg/m³ (<1 g/cm³) at 15°C

Solubility(ies)

Media	Result
<b>w</b> ater	Not soluble

Partition coefficient: n-octanol/ water

Not applicable.

-1,3-propanediol octanoate

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
pec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159

**Decomposition temperature** 

Not available.

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# **SECTION 9: Physical and chemical properties**

Viscosity Kinematic: 460 mm<sup>2</sup>/s (460 cSt) at 40°C

Kinematic: 46.5 mm<sup>2</sup>/s (46.5 cSt) at 100°C

**Explosive properties**Not available. **Oxidising properties**Not available.

Particle characteristics

Median particle size Not applicable.

9.2 Other informationNo additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity
No specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

**10.2 Chemical stability** The product is stable.

10.3 Possibility of hazardous reactions
 Under normal conditions of storage and use, hazardous reactions will not occur.
 Under normal conditions of storage and use, hazardous polymerisation will not occur.

**10.4 Conditions to avoid** Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** Reactive or incompatible with the following materials: oxidising materials.

**10.6 Hazardous**Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Mphasyn EP 460	N/A	228052.3	N/A	380.1	N/A
Amines, C12-14-tert-alkyl	500	300	N/A	0.5	N/A
(Z)-octadec-9-enylamine	500	N/A	N/A	N/A	N/A

Information on likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

#### Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

**Ingestion** No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation. Not considered a skin sensitizer.

Based on data available for this or related materials.

Eye contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

Eye contact No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

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## **SECTION 11: Toxicological information**

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

Remarks - Endocrine dirsupting properties for human health Summary/ Conclusion (All ingredients) 11.2.2 Other information Not available.

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Environmental hazards** Farmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Not expected to be rapidly degradable.

#### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Soil/water partition

Not available.

coefficient (Koc)

Mobility Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting

properties

Not available.

Remarks - Endocrine disrupting properties for environment Summary/

₩ot available.

Conclusion (All ingredients)
Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

transfer could also be impaired.

**12.7 Other adverse effects** No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/

licensed waste disposal contractor in accordance with local regulations.

Hazardous waste Yes
European waste catalogue (EWC)

Waste code	Waste designation	
13 02 06*	synthetic engine, gear and lubricating oils	

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# **SECTION 13: Disposal considerations**

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

#### **Packaging**

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Waste code Europe		European waste catalogue (EWC)	
	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions		This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or	

liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

References Commission 2014/955/EU Directive 2008/98/EC

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

**Other regulations** 

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# SECTION 15: Regulatory information

The company, as identified in Section 1, sells this product in the EU in compliance with the **REACH Status** 

current requirements of REACH.

**United States inventory** 

All components are active or exempted.

(TSCA 8b)

Australia inventory (AIIC) All components are listed or exempted. **Canada inventory** All components are listed or exempted. All components are listed or exempted. China inventory (IECSC) Japan inventory (CSCL) All components are listed or exempted. Korea inventory (KECI) All components are listed or exempted. MI components are listed or exempted.

Philippines inventory (PICCS)

**Taiwan Chemical Substances Inventory** 

(TCSI)

All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**EU - Water framework directive - Priority substances** 

None of the components are listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

#### **SECTION 16: Other information**

**Abbreviations and acronyms** 

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

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#### **SECTION 16: Other information**

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN

**Justification** 

01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN

01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN

01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN

01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN

01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,

64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 /

RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN

01-2119474889-13

Classification

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
quatic Chronic 3, H412		Calculation method
Full text of abbreviated H statements	H220 H224 H225 H280 H301 H302 H304 H311 H312 H314 H315 H317 H318 H319 H330 H331 H335 H340 H351 H350 H351 H370 H373	Extremely flammable gas. Extremely flammable liquid and vapour. Highly flammable liquid and vapour. Contains gas under pressure; may explode if heated. Toxic if swallowed. Harmful if swallowed and enters airways. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. Suspected of causing cancer. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May form explosive peroxides.
Full text of classifications [CLP/GHS]	EUH066 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Asp. Tox. 1 Carc. 1B Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Gas 1A Flam. Liq. 1 Flam. Liq. 2 Muta. 1B Press. Gas (Comp.) Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1	Repeated exposure may cause skin dryness or cracking.  ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1B CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1A FLAMMABLE LIQUIDS - Category 1 FLAMMABLE LIQUIDS - Category 2 GERM CELL MUTAGENICITY - Category 1B GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 2

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#### **SECTION 16: Other information**

Skin Sens. 1A SKIN SENSITISATION - Category 1A Skin Sens. 1B SKIN SENSITISATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

EXPOSURE - Category 2

STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 1

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

**History** 

Date of issue/ Date of

03/10/2022.

revision

Date of previous issue 17/03/2022.

Prepared by Product Stewardship

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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# Annex to the extended Safety Data Sheet (eSDS)

Industrial

#### Identification of the substance or mixture

Product definition Mixture

Code 462251-FR01

Product name Alphasyn EP 460

Section 1: Title

Short title of the exposure

scenario

List of use descriptors

General use of lubricants and greases in vehicles or machinery - Industrial

Identified use name: General use of lubricants and greases in vehicles or

machinery-Industrial

Process Category: PROC01, PROC08b, PROC09, PROC02

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07

Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1

Processes and activities covered by the exposure

covered by the exposure scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

#### Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance 2.63E+3 Tonnes/year

per year:

Frequency and duration of use:

Emission days 300

**Environment factors not influenced by risk** 

management:

Local freshwater dilution factor 10

Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

•

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process

process level (source) to prevent release: release estimates used.

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

Estimated substance removal from wastewater via on-site sewage treatment

Assumed domestic sewage treatment plant flow rate (m3/d)

Maximum allowable site tonnage (Msafe) based on release following total wastewater treatment removal as product:

Conditions and measures related to external treatment of waste for disposal:

Conditions and measures related to external recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater.

User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

Not available.

2.00E+3

Not available.

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

#### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

**Exposure assessment (human):**No exposure scenario is presented because the product is not

classified for Human Health

# Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health



# Annex to the extended Safety Data Sheet (eSDS)

**Professional** 

#### Identification of the substance or mixture

Product definition Mixture

Code 462251-FR01

Product name Alphasyn EP 460

Section 1: Title

Short title of the exposure

scenario

List of use descriptors

General use of lubricants and greases in vehicles or machinery - Professional

Identified use name: General use of lubricants and greases in vehicles or

machinery-Professional

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

Specific Environmental Release Category: ATIEL-ATC SPERC 9.Bp.v1

Processes and activities covered by the exposure

covered by the exposure scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 Operational conditions and risk management measures

#### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

#### Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance 5.39 Tonnes/year

per year:

Frequency and duration of use:

Emission days 365

**Environment factors not influenced by risk** 

management:

Local freshwater dilution factor 10
Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

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1.00E-04

Release fraction to soil from process (after

typical onsite RMMs)

1E-03

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process

process level (source) to prevent release: release estimates used.

General use of lubricants and greases in vehicles or machinery - Professional

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

Estimated substance removal from wastewater via on-site sewage treatment

Assumed domestic sewage treatment plant flow rate (m3/d)

Maximum allowable site tonnage (Msafe) based on release following total wastewater treatment removal as product:

Conditions and measures related to external treatment of waste for disposal:

Conditions and measures related to external recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

No data available yet

2.00E+3

No data available yet

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

#### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

**Exposure estimation and reference to its source - Workers** 

**Exposure assessment (human):**No exposure scenario is presented because the product is not

classified for Human Health

#### Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health