

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 01.12.2017

Version number 15

Revision: 11.09.2017

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

· **1.1 Product identifier**

· Trade name:

**AEROSOL**

**GEAR PLUS**

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

No further relevant information available.

· **Application of the substance / the mixture**

Lubricant

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Société SAMARO S.A.S.  
ZI Nord - Allée des Petites Combes  
F-01700 BEYNOST

Tél : 00 334 26 680 680

Fax : 00 334 26 680 688

Courriel : info@samaro.com

· **1.4 Emergency telephone number:**

ORFILA (INRS) : +33 (0)1 45 42 59 59

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

· **Hazard pictograms**

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS09

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

Hydrocarbons, C8-C9, isoalkanes.

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.  
Restricted to professional users.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· **Description:** Active substance with propellant

#### · **Dangerous components:**

EC number: 932-020-9 Reg.nr.: 01-2119548395-31	Hydrocarbons, C8-C9, isoalkanes. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	25-50%
EC number: 931-384-6 Reg.nr.: 01-2119493620-38	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤1%

- **Additional information:** Contains less than 0,1% benzene.  
Aromatic content : < 0.01%  
For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- **General information:** Seek immediate medical advice.  
Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

No further relevant information available.

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

If swallowed or in case of vomiting, danger of entering the lungs.  
Medical supervision for at least 48 hours.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.  
Foam  
Fire-extinguishing powder  
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**  
Heat (or fire) will increase pressure and may lead to the receptacle bursting.  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide and carbon dioxide  
Hydrocarbons  
Hydrogen fluoride (HF)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not applicable, as aerosol.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.  
Send for recovery or disposal in suitable receptacles.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Take note of emission threshold.
- **Information about fire - and explosion protection:** Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Keep ignition sources away - Do not smoke.  
Do not spray onto a naked flame or any incandescent material.  
Use explosion-proof apparatus / fittings and spark-proof tools.

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### · 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage:

#### · Requirements to be met by storerooms and receptacles:

Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.

#### · Information about storage in one common storage facility:

#### · Further information about storage conditions:

Do not store together with oxidising and acidic materials.

Store in cool, dry conditions.  
Protect from heat and direct sunlight.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
Temperature < 40°C.

### · 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

#### · Additional information about design of technical facilities:

No further data; see item 7.

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

#### Hydrocarbons, C8-C9, isoalkanes.

Dermal	Effets systémiques à long terme	> 700 mg/kg /jour (Travailleurs / Workers)
Inhalative	Effets systémiques à long terme,	> 2000 mg/m <sup>3</sup> (Travailleurs / Workers)

#### · Additional information:

The lists valid during the making were used as basis.

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Wash hands before drinking, eating or smoking.

Do not inhale gases / fumes / aerosols.

Wearing of Personal Protective Equipment (PPE) required for all persons with allergies.

#### · Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

#### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

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· **Penetration time of glove material**

calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:**

The exact breakthrough time of the glove material has to be found out by the manufacturer of the protective gloves and has to be observed.



Safety glasses

· **Body protection:**

Use protective suit.

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Aerosol
Colour:	Black
Odour:	Petroleum-like

##### · Change in condition

Initial boiling point and boiling range: Not applicable, as aerosol.

· **Flash point:** 30 °C (NF EN 22719)

· **Ignition temperature:** >230 °C

· **Density at 25 °C:** 0.850 g/cm<sup>3</sup>

##### · Solubility in / Miscibility with water:

Insoluble.

#### · 9.2 Other information

Physical and chemical properties of the active ingredient without gas.

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

No further relevant information available.

#### · 10.2 Chemical stability

##### · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### · 10.3 Possibility of hazardous reactions

None when normally used.

#### · 10.4 Conditions to avoid

Heat, flames and sparks.

Avoid the accumulation of electrostatic charges.

#### · 10.5 Incompatible materials:

Materials to avoid: strong acids. oxidizing

#### · 10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

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

##### · LD/LC50 values relevant for classification:

##### Hydrocarbons, C8-C9, isoalkanes.

Oral	LD50.	> 7100 mg/kg (Rat) (OCDE 401)
Dermal	LD50.	> 2200 mg/kg (rab)

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Inhalative LC50/4h. 17300-23300 mg/m<sup>3</sup> (Rat) (OCDE 403)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### Hydrocarbons, C8-C9, isoalkanes.

NOELR	6.3 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EL 50 (48h)	2.4 mg/l (Daphnia)
LL50 (96h)	18.4 mg/l (Oncorhynchus mykiss) (OECD 203)
ErL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EbL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

#### · 12.2 Persistence and degradability

No further relevant information available.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · Ecotoxicological effects:

##### · Remark:

Toxic for fish

##### · Additional ecological information:

##### · General notes:

Do not allow product to reach ground water, water course or sewage system.  
The product contains materials that are harmful to the environment.  
Toxic for aquatic organisms

#### · 12.5 Results of PBT and vPvB assessment

##### · PBT:

Not applicable.

##### · vPvB:

Not applicable.

#### · 12.6 Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Send to an approved waste facility.  
Do not allow product to reach sewage system or any water course.

#### · Uncleaned packaging:

##### · Recommendation:

Send to an approved waste facility.  
Disposal must be made according to official regulations.

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Do not pierce or burn, even after use.

## SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li> </li> <li>· <b>IATA</b></li> </ul>	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (Hydrocarbons, C8-C9, isoalkanes., Produit de la réaction de l'acide (2-methylpentan-2-yl) dithiophosphorique avec de l'oxyde de phosphore, de l'oxyde de propylène et des amines, C12-14 alkyles.), MARINE POLLUTANT AEROSOLS, inflammable
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 5F Gases. 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	Product contains environmentally hazardous substances: Hydrocarbons, C8-C9, isoalkanes. Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> </ul>	Warning: Gases. - F-D,S-U
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.

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**· Transport/Additional information:**

· <b>ADR</b>	1L
· <b>Limited quantities (LQ)</b>	Code: E0
· <b>Excepted quantities (EQ)</b>	Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D

**· IMDG**

· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0
	Not permitted as Excepted Quantity

**· UN "Model Regulation":**

UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· Directive 2012/18/EU**

· <b>Qualifying quantity (tonnes) for the application of lower-tier requirements</b>	200 t
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· <b>Qualifying quantity (tonnes) for the application of upper-tier requirements</b>	500 t
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· <b>REGULATION (EC) No 1907/2006 ANNEX XVII</b>	Conditions of restriction: 3
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**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
Shelf-life : 24 months from the date it was manufactured.

**· Relevant phrases**

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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Aerosol 1: Aerosols – Category 1  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· \* Data compared to the previous version altered.

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