

**Safety Data Sheet**

according to WHMIS

**FlyBy30**

Date (latest revision): 04.04.2023

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**1. Identification****Product identifier**

FlyBy30

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Automotive care products

**Uses advised against**

any non-intended use.

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

Company name: Centre de l'auto Éléance  
Street: 9400 rue John-Simons, Suite 100  
Place: CDN-G2B0S9 Québec, QC  
Telephone: +1 418-847-4747  
E-mail: centre.auto.elegance@gmail.com  
Contact person: Keven Labonté-Tremblay  
Internet: <https://centredelautoelegance.ca/>

**Emergency telephone number:** +1 418-847-4747**2. Hazard identification****Classification of the substance or mixture****WHMIS 2015**

Flammable liquids: Flam. Liq. 4  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A

**Label elements****WHMIS 2015****Signal word:** Warning**Pictograms:****Hazard statements**

Combustible liquid.  
Causes skin irritation and serious eye irritation.

**Precautionary statements**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Store in a well-ventilated place.  
Dispose of contents/container to local/regional/national/international regulations.

**Other hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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**3. Composition/information on ingredients****Mixtures****Relevant ingredients**

CAS No	Chemical name	Quantity
64-17-5	ethanol; ethyl alcohol	10 - < 30 % (*)
83048-65-1	Trimethoxy(1H,1H,2H,2H-heptadecafluorodecyl)silane	1 - < 5 % (*)

(\*) The actual concentration is withheld as a trade secret.

**4. First-aid measures****Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

**Most important symptoms and effects, whether acute or delayed**

See sections 2 and 11

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the hazardous product**

Combustible. In case of fire and/or explosion do not breathe fumes.

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>) Fluorhydric acid.

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

**6. Accidental release measures**

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**Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

**For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

**For emergency responders**

No special measures are necessary.

**Environmental precautions**

Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections**

Handling and storage: 7

Personal protection equipment: see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

**Further information on handling**

General protection and hygiene measures: See section 8.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

**8. Exposure controls/Personal protection****Control parameters****Exposure limits (ACGIH)**

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	Category	Origin
64-17-5	Ethanol	1000	1880	STEL (15 min)	ACGIH-2024

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**Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). CSA Z94.3

**Hand protection**

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of the glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of the glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of the glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of the glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves should satisfy the specifications of standards like ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Lab apron.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: Particulate Respirators, Standard: 42 CFR Part 84 or DIN 143 or regional standards like Z94.4. Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	transparent
Odour:	characteristic
Odour threshold:	not determined

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Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not determined
Lower explosive limits:	not determined
Upper explosive limits:	not determined
Flash point:	65 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not relevant
pH-Value:	8
Viscosity / kinematic:	not determined
Water solubility:	not determined
Solubility in other solvents	not determined
Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not relevant
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density:	not determined
Bulk density:	not relevant
Relative vapour density:	not determined
Particle characteristics:	not relevant

**Other information****Information with regard to physical hazard classes**

Explosive properties

none

Sustained combustibility:

No sustained combustibility

Self-ignition temperature

Solid:

not relevant

Gas:

not determined

Oxidizing properties

none

**Other safety characteristics**

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Sublimation point:

not relevant

Softening point:

not relevant

Pour point:

not relevant

Viscosity / dynamic:

not determined

Flow time:

not determined

**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

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**Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

**Hazardous decomposition products**

Does not decompose when used for intended uses.

**11. Toxicological information****Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects 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.

Ethanol (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. Reproductive toxicity: Exposure time: 18 weeks Species: CD-1 Mouse. Method: OECD Guideline 416

Result: NOAEL = 20700 mg/kg/day Developmental toxicity/teratogenicity: Exposure time: 19d Species: Sprague-Dawley Rat. Method: OECD Guideline 414 Result: NOAEL = 16000 ppm (maternal toxicity) Result: NOAEL &gt;= 20000 ppm (teratogenicity) Literature information: REACH Dossier

**STOT-single exposure**

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

**STOT-repeated exposure**

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

Ethanol (CAS-No.: 64-17-5):

Subchronic oral toxicity:

Exposure time: 90d; Species: Sprague-Dawley Rat.

Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents); Result: NOAEL = 1280 mg/kg; Literature information: REACH Dossier

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available.

**Information on other hazards****Other information**

No data available.

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**Name of toxicologically synergistic products**

No data available

**12. Ecological information****Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

No indication of bioaccumulation potential.

**Mobility in soil**

No data available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**14. Transport information****Canadian TDG****Proper shipping name:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****UN number or ID number:**

No dangerous good in sense of these transport regulations.

**United Nations proper shipping name:**

No dangerous good in sense of these transport regulations.

**Transport hazard class(es):**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****UN number or ID number:**

No dangerous good in sense of these transport regulations.

**United Nations proper shipping name:**

No dangerous good in sense of these transport regulations.

**Transport hazard class(es):**

No dangerous good in sense of these transport regulations.

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**15. Regulatory information****Canadian regulations**

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**DSL/NDSL inventory status**

All components are contained in the DSL/NDSL inventory, or exempted.

**National Pollutant Release Inventory (NPRI)**

Canada Gazette notice with respect to substances in the National Pollutant Release Inventory (NPRI) includes the following substance:

ethanol; ethyl alcohol (CAS: 64-17-5): Part 5; 1 tonne air release; VOC.

**WHMIS classification**

No data available

**Provincial regulations**

No data available

**Additional information**

This mixture is classified as hazardous in accordance with WHMIS 2015.

**16. Other information****Changes**

Rev. 1,00, Initial release 17.04.2014

Rev. 2,00; 29.12.2017, Changes in section: 1-16.

Rev. 2,10; 15.07.2019, Changes in section: 1-16.

Rev. 3,00; 14.04.2021, Changes in section: 1-16.

Rev. 3,1; 04.04.2023, Changes in section: 1, 2, 6, 8 - 12, 15, 16

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**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ASTM: American Society for Testing and Materials.  
 ATE: acute toxicity estimate  
 BCF: Bio concentration factor  
 CAS: Chemical Abstracts Service  
 d: days  
 DSL: Domestic Substance List; LIS: La liste intérieure des substances  
 EC50: Half maximal effective concentration  
 EN: European Norm  
 ECHA: European Chemicals Agency  
 EPA: Environmental Protection Agency  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 h: hours  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IBC: Intermediate Bulk Container  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 MARPOL: marine pollution  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NTP: National Toxicology Program  
 N/A: not applicable  
 NDSL: Non-Domestic Substance List  
 UN: United Nations  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent bioaccumulative toxic  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 SIMDUT: Système d'information sur les matières dangereuses utilisées au travail  
 STEL: short-term exposure limits  
 TDG: Transportation of Dangerous Goods  
 TWA: time weighted average  
 TWAEV: TIME-WEIGHTED AVERAGE EXPOSURE VALUE  
 VOC: Volatile Organic Compounds  
 WHMIS: Workplace Hazardous Materials Information System

**Further Information**

Classification according WHMIS 2015 (GHS): - Classification procedure:  
 Health hazards: Calculation method.  
 Environmental hazards: Calculation method.  
 Physical hazards: On basis of test data and / or calculated. and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of

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processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*