

SAFETY DATA SHEET

CARBON CLEAN

Version:2

Review date:10/03/2015

RE EC/453/2010 - ISO 11014-1

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1. 1. Product identifier: CARBON CLEAN
1. 2. Relevant identified uses of the substance or mixture and uses advised against: Decarbonizing, cleaning and degreasing for systems of injection
1. 3. Details of the supplier of the safety data sheet: SELD
6 rue Jules Guesde – ZI du Pontet
F-69360 Saint Symphorien d'Ozon
France
Phone: +33 (0)4 37 25 16 16
Fax: +33 (0)4 78 21 80 70
E-mail: contact@mecatech-performances.com
1. 4. Product code nr: 403012
1. 5. Emergency telephone number: Emergency phone number (to be used by the practising doctor):
UK - National Poisons Information Service Phone: 44 / 191 22 5131

2. HAZARDS IDENTIFICATION

2. 1. Classification of the substance or mixture: * Flam. Aerosol 2 / SGH02 - H223 *
* Skin Irrit. 2 / SGH07 - H315 *
* STOT SE 3 / SGH07 - H336 *
* Aquatic. Chronic 2 / SGH09 - H411 *
2. 2. EC number: Not applicable.
2. 3. Contains: • HYDROCARBURES, C9-C11, N-ALCANES, ISOALCANES, CYCLIQUES, <2% AROMATIQUES

2. 4. Label elements (R - S):



2. 4. 1. Symbol(s): F - Highly flammable ; Xn - Harmful ; N - Dangerous for the environment
2. 4. 2. R-phrase(s): 10 Flammable.
20/21 Harmful by inhalation and in contact with skin.
38 Irritating to skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2. 4. 3. S-phrase(s): 2 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas / fumes / vapour / spray.
36/37 Wear suitable protective clothing and gloves.
38 In case of insufficient ventilation, wear suitable respiratory equipment.

2. 5. Label elements (CLP - SGH):



Warning

2. 5. 1. Symbol(s) and signal word: .
2. 5. 2. Hazard statement: H223 Flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
2. 5. 3. Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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2. 5. 4. Response:	<p>P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P264 Wash Hands thoroughly after handling. P280 Wear protective gloves / protective clothing / eye protection / face protection. P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321a Specific treatment (see item nr 4.3.). P332+P313 If skin irritation occurs: Get medical advice / attention. P362 Take off contaminated clothing. P364 And wash it before reuse. P304 IF INHALED: P340 Remove person to fresh air and keep comfortable for breathing. P312a Call a POISON CENTER / doctor if you feel unwell. P391 Collect spillage.</p>
2. 5. 5. Storage:	<p>P410 Protect from sunlight. P412 Do not expose to temperatures exceeding 50 °C / 122°F. P403 Store in a well-ventilated place. P233 Keep container tightly closed. P405 Store locked up.</p>
2. 5. 6. Disposal:	<p>P501a Dispose of contents / container in accordance with local / regional / national / international regulation</p>
2. 6. Further information(s):	<p>EUH 066 - Repeated exposure may cause skin dryness or cracking. Pressurised container: May burst if heated. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P410 Protect from sunlight. P412 Do not expose to temperatures exceeding 50 °C / 122°F. 97.9 % by mass of the contents are flammable.</p>
2. 7. Other hazards:	<p>Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis.</p>

3. COMPOSITION / INFORMATION ON INGREDIENTS

3. 1. Component(s) contributing to the hazard:

- Dioxyde de carbone
- CE nr: 204-696-9 - CAS nr: 124-38-9
- Conc. (weight %): 1 < C <= 5
- SGH:
* SGH04 - Gas cylinder - Warning - Compressed gases - H280
- VME ppm = 5000 - VME mg/m³ = 9000 - VLE ppm = 30000 - VLE mg/m³ = 54000
- HYDROCARBURES, C9-C11, N-ALCANES, ISOALCANES, CYCLIQUES, <2% AROMATIQUES
- CE nr: 918-481-9
- REACH registration number : 01-2119457273-39xxx
- Conc. (weight %): 50 < C <= 60
- R-S:
Symbol(s): Xn - R-phrases(s): 10-65-66-67
- SGH:
* SGH02 - Flame - Warning - Flam. Liq. 3 - H226
* SGH07 - Exclamation mark - Warning - STOT SE 3 - H336 * SGH08 - Health hazard - Danger - Asp. Tox. 1 - H304
- Miscellaneous :
LD50 / Dermal / Rabbit = >5000 mg/kg
LD50 / Oral / Rat = >5000 mg/kg
LC50 / 96h / Oncorhynchus mykiss = >1000 mg/l
CE50 / 48h / Daphnia magna = >1000 mg/l
CEr50 / 72h / Algae = >1000 mg/l

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Additional phrase(s)

EUH 066 - Repeated exposure may cause skin dryness or cracking.

• o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4]

- Id nr: 601-022-00-9 - CE nr: 215-535-7 - CAS nr: 1330-20-7

- Conc. (w eight %) : 25 < C <= 30

- R-S :

Classification: • R 10 • Xn; R 20/21 • Xi; R 38 •

- SGH :

* SGH02 - Flame - Warning - Flam. Liq. 3 - H226

* SGH07 - Exclamation mark - Warning - Acute Tox. 4 - H312 - H332 - Skin Irrit. 2 - H315

- VME ppm = 50 - VME mg/m³ = 221 - VLE ppm = 100 - VLE mg/m³ = 442

• Terpène d'orange

- CAS nr: 8028-48-6

- Conc. (w eight %) : 10 < C <= 15

- R-S :

Symbol(s): Xi - R-phrase(s): 10-38

- SGH :

* SGH02 - Flame - Warning - Flam. Liq. 3 - H226

* SGH07 - Exclamation mark - Warning - Skin Irrit. 2 - H315

The wording of the sentences are mentioned at heading 16.

4. FIRST AID MEASURES

4. 1. Description of first aid measures:

4. 1. 1. General advice:

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
For symptom description, see item 11.

4. 1. 2. Inhalation:

Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth.
If unconscious, place in the recovery position and seek medical advice.

4. 1. 3. Skin contact:

Wash off with soap and plenty of water. Take off immediately all contaminated clothing.

4. 1. 4. Eye contact:

Wash with plenty of water and if necessary take medical advice.

4. 1. 5. Ingestion:

If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

4. 2. Most important symptoms and effects, both acute and delayed:

skin irritation

4. 2. 1. Inhalation:

Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, breathing arrest.

4. 2. 2. Skin contact:

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

4. 2. 3. Eyes contact:

Splashes in the eyes may cause irritation and reversible local damage.

4. 2. 4. Ingestion:

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

4. 3. Indication of any immediate medical attention and special treatment needed :

In all cases of doubt, or when symptoms persist, seek medical attention.

5. FIREFIGHTING MEASURES

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| 5. 1. Extinguishing media: | alcohol-resistant foam, carbon dioxide (CO ₂), powder, water spray. |
| 5. 2. Special hazards arising from the substance or mixture: | Be careful of explosion risk.
Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required.
Fire will produce dense black smoke. |
| 5. 3. Advice for firefighters: | Use a self-contained breathing apparatus and also a protective suit. |
| 5. 4. Specific method(s): | Cool closed containers exposed to fire with water spray. |
| 5. 5. Extinguishing media which must NOT be used for safety reasons: | Do not use water jet. |

6. ACCIDENTAL RELEASE MEASURES

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| 6. 1. Personal precautions, protective equipment and emergency procedures: | Evacuate personnel to a safe area.
Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. |
| 6. 2. Environmental precautions: | Prevent liquid from entering sewers, watercourses, underground or low areas. |
| 6. 3. Methods and material for containment and cleaning up: | Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth
Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). |
| 6. 4. Reference to other sections: | Concerning personal protective equipment to use, see item 8.
Concerning disposal elimination after cleaning, see item 13. |

7. HANDLING AND STORAGE

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| 7. 1. Handling: | |
| 7. 1. 1. Precautions for safe handling: | Smoking, eating and drinking is prohibited in areas of storage and use.
Avoid contact with skin and eyes. |
| 7. 1. 2. Technical condition(s): | The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. |
| 7. 2. Storage: | |
| 7. 2. 1. Conditions for safe storage, including any incompatibilities: | Keep out of the reach of children.
Keep away from open flames, hot surfaces and sources of ignition. |
| 7. 2. 2. Storage condition(s): | Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
Store at temperatures between 5°C and 50°C |
| 7. 2. 3. Separation of incompatible product(s): | Store separately from oxidising agents and strongly alkaline and strongly acidic materials. |
| 7. 2. 4. Packaging / tank material: | made of the same material as the supply container. |
| 7. 3. Specific end use(s): | None under normal use. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- | | |
|----------------------------------|---|
| 8. 1. Control parameters: | |
| 8. 1. 1. Exposure limit(s): | • Dioxyde de carbone : VME ppm = 5000 - VME mg/m ³ = 9000 - VLE ppm = 30000 - VLE mg/m ³ = 54000
• o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4] : VME ppm = 50 - VME mg/m ³ = 221 - VLE ppm = 100 - VLE mg/m ³ = 442 |
| 8. 1. 2. Engineering measure(s): | Ensure adequate ventilation, especially in confined areas. |

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8. 2. Exposure controls:

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| 8. 2. 1. Respiratory protection: | Not necessary with sufficient ventilation. |
| 8. 2. 2. Hand protection: | Wear suitable gloves.
The gloves out of PVC or rubber are disadvised. |
| 8. 2. 3. Skin and body protection: | Wear suitable protective clothing |
| 8. 2. 4. Eye protection: | Eye protection designed to protect against exposure to dusts should be worn when there is a likelihood of exposure. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9. 1. Information on basic physical and chemical properties:

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| 9. 1. 1. Appearance: | aerosol: liquid + propellant gas no flammable |
| 9. 1. 2. Colour: | colourless |
| 9. 1. 3. Odour: | characteristic |
| 9. 1. 4. PH: | 7 |
| 9. 1. 5. Boiling point/range: | >56 °C |
| 9. 1. 6. Flash point: | 40 ° C |
| 9. 1. 7. Explosion limits: | No data available. |
| 9. 1. 8. Relative density (water = 1): | 0.816 |
| 9. 1. 9. Viscosity: | Not determined. |

9. 2. Other information:

- | | |
|------------------------------|----------------------------------|
| 9. 2. 1. Water solubility: | partly miscible |
| 9. 2. 2. Fat solubility: | completely soluble |
| 9. 2. 3. Solvent solubility: | soluble in most organic solvents |

9. 3. Other information:

Chemical heat of combustion: < 30 KJ/g
Outdistance of ignition: 60 cm

10. STABILITY AND REACTIVITY

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| 10. 1. Reactivity: | No decomposition if stored normally. |
| 10. 2. Chemical stability: | Stable under the recommended storage and handling conditions. (See Section 7). |
| 10. 3. Possibility of hazardous reactions: | Not waited |
| 10. 4. Conditions to avoid: | Avoid temperature above 50 °C |
| 10. 5. Incompatible materials: | Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction. |
| 10. 6. Hazardous decomposition products: | Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide... |

11. TOXICOLOGICAL INFORMATION

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|--|---|
| 11. 1. Information on toxicological effects: | There is no data available on the product itself. |
| 11. 2. Acute toxicity: | |
| 11. 2. 1. Inhalation: | No data available. |

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|-------------------------|--------------------|
| 11. 2. 2. Skin contact: | see item nr 3 |
| 11. 2. 3. Eyes contact: | No data available. |
| 11. 2. 4. Ingestion: | see item nr 3 |

12. ECOLOGICAL INFORMATION

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| 12. 1. Toxicity: | May be harmful to aquatic organisms, to flora, to soil organisms. |
| 12. 2. Persistence and degradability: | There is no data available on the product itself. |
| 12. 3. Bioaccumulative potential: | None bioaccumulation. |
| 12. 4. Mobility in soil: | Cette préparation contient une substance UVCB. Les tests standards ne sont pas appropriés pour ce paramètre. |
| 12. 5. Results of PBT and vPvB assessment: | This product n' is not a substance PBT or vPvB, or n' in does not contain. |
| 12. 6. Other adverse effects: | No expected harmful effects. |
| 12. 6. 1. Toxicity to fish: | see item nr 3 |

13. DISPOSAL CONSIDERATIONS

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|---------------------------------|--|
| 13. 1. Waste treatment methods: | Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.
Collect all waste in suitable and labelled containers and dispose according to local legislation. |
| 13. 2. Contaminated packaging: | Empty containers can be dumped according to local legislation. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. |

14. TRANSPORT INFORMATION

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|---|---|
| 14. 1. General information(s): | Transport followed ADR, IMDG, IATA |
| 14. 2. UN number: | 1950 |
| 14. 3. Land (Road / Railway: ADR/RID): | |
| 14. 3. 1. Transport hazard class(es): | 2 |
| 14. 3. 2. ADR/RID-Labels: | 2.1 |
| 14. 3. 3. Classification code: | 5F |
| 14. 3. 4. Packing instructions: | p204 |
| 14. 4. Sea (IMDG): | |
| 14. 5. Air (ICAO/IATA): | |
| 14. 6. Environmental hazards: | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 14. 7. Special precautions for user: | Concerning personal protective equipment to use, see item 8. |
| 14. 8. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not applicable. |
| 14. 9. Further Information(s): | Quantités limitées : LQ 2
Catégorie de transport : 2.1 |

15. REGULATORY INFORMATION

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| 15. 1. Safety, health and environmental regulations/legislation specific for the substance or mixture: | Labelling aerosol according to the directive 2008/47/CE of the commission of April 8, 2008
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. 97.9 % by mass of |
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15. 2. Chemical safety assessment: the contents are flammable.
Not applicable.

16. OTHER INFORMATION

16. 1. Text of the phrases listed in section 3:

R10 Flammable.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
H280 Contains gas under pressure; may explode if heated.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H315 Causes skin irritation.
P410 Protect from sunlight.
P403 Store in a well-ventilated place.
P303 IF ON SKIN (or hair):
P361 Take off immediately all contaminated clothing.
P353 Rinse skin with water / shower.
P370 In case of fire:
P378 Use <#x#> to extinguish.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / lighting / ... / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P235 Keep cool.
P501a Dispose of contents / container in accordance with local / regional / national / international regulation
P304 IF INHALED:
P340 Remove person to fresh air and keep comfortable for breathing.
P312a Call a POISON CENTER / doctor if you feel unwell.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P405 Store locked up.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P302 IF ON SKIN: Wash with plenty of soap and water.
P352 Immediately call a POISON CENTER / doctor.
P321 Take off immediately all contaminated clothing and wash it before reuse.
P364 ?????
P332 If skin irritation occurs:
P313 Get medical advice / attention.
P362 Take off contaminated clothing.
P264 Wash ... thoroughly after handling.

16. 2. Important remarks:

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.
The user is always responsible for ensuring that the requirements of relevant legislation are complied with.
The information contained in this safety data sheet is based on the present state of knowledge and current national legislation it provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical

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	performance or suitability for particular applications.
16. 3. Restrictions:	This information relates to the specific material designated and may not be valid in combination with other product(s).
16. 4. History:	
16. 4. 1. First edition date:	6/02/2013
16. 4. 2. Previous revision date:	6/02/2013
16. 4. 3. Review date:	10/03/2015
16. 4. 4. Version:	2
16. 4. 5. Review chapter(s) n°:	CLP
16. 5. Written by:	SELD