

SAFETY DATA SHEET

GDA Evolution

Version:5



Review date:20/05/2015

RE EC/830/2015 - ISO 11014-1

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

1. 1. Product identifier: GDA Evolution
1. 1. 1. Contains: • tetrachloroethylene
1. 1. 2. EC number: Not applicable.
1. 2. Relevant identified uses of the substance or mixture and uses advised against: Antifriction surface treatment
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. Emergency telephone number: Emergency phone number (to be used by the practising doctor):
UK - National Poisons Information Service Phone: 44 / 191 22 5131
1. 5. Product code nr: MT025

2. HAZARDS IDENTIFICATION

2. 1. Classification of the substance or mixture: * Carc. 2 / SGH08 - H351 *
* Aquatic. Chronic 2 / SGH09 - H411 *
2. 2. Label elements:
-  
- Warning -
2. 2. 1. Symbol(s) and signal word: .
2. 2. 2. Hazard statement: H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.
2. 2. 3. Prevention: P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P273 Avoid release to the environment.
2. 2. 4. Response: P308+P313 IF exposed or concerned: Get medical advice / attention.
P391 Collect spillage.
2. 2. 5. Storage: P405 Store locked up.
2. 2. 6. Disposal: P501a Dispose of contents / container in accordance with local / regional / national / international regulation
2. 3. Other hazards: Affect many plastics.
React with strong acids and oxidising compounds.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3. 1. Component(s) contributing to the health hazard: • tetrachloroethylene
- Id nr: 602-028-00-4 - CE nr: 204-825-9 - CAS nr: 127-18-4
- REACH registration number : 01-2119475329-28
- Conc. (weight %) : 40 < C <= 50
- SGH :
* SGH08 - Health hazard - Warning - Carc. 2 - H351
* SGH09 - Environment - Aquatic. Chronic 2 - H411
- Miscellaneous :
NOEC / Regional / Predatory, piscivorous = 2 mg/l
LD50 / Oral / Rat = 3.005 - 3.835 mg/kg

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LC50 / 96h / Fish = 5 mg/l
LC50 / 96h / *Oncorhynchus mykiss* = 5 mg/l
LC50 / Inhalation (vapours) / 4h / Rat = 3786 ppm
CE50 / / Bacteria = 112 mg/l
CE50 / 48h / *Daphnia magna* = 8.5 mg/l
CE50 / 72h / Algae = 3.64 mg/l

VME ppm = 50 - VME mg/m³ = 339 - VLE ppm = 200 - VLE mg/m³ = 1357

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: Never give anything by mouth to an unconscious person.
In all cases of doubt, or when symptoms persist, seek medical attention.
4. 1. 2. Inhalation: - Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice.
- Artificial respiration and/or oxygen if necessary.
4. 1. 3. Skin contact: - Take off immediately all contaminated clothing.
- Wash off with soap and plenty of water.
- If skin irritation persists, take medical advice.
4. 1. 4. Eye contact: Rinse immediately with plenty of water, also under eyelids, taking contact lenses off.
If eye irritation persists, take medical advice.
4. 1. 5. Ingestion: - Do NOT induce vomiting.
- Rinse mouth, do not drink anything, keep quiet, and go immediately to hospital or to a doctor.

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

4. 2. 1. Inhalation: Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, breathing arrest. Symptoms of overexposure may be effects on central nervous system
4. 2. 2. Skin contact: Components of the product may be absorbed into the body through the skin.
Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis.
May cause skin irritation / dermatitis.
May cause an allergic skin reaction.
4. 2. 3. Eyes contact: Splashes in the eyes may cause irritation and reversible local damage.
4. 2. 4. Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. High concentrations may cause injuries to gastrointestinal tract, liver, kidneys and central nervous system.
4. 3. Indication of any immediate medical attention and special treatment needed : To manage an eye lotion analgesic (oxybuprocaine) in the event of difficulty of opening of the eyelids
In all cases of doubt, or when symptoms persist, seek medical attention.

5. FIREFIGHTING MEASURES

5. 1. Extinguishing media: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth.
5. 2. Special hazards arising from the substance or mixture: In case of fire and/or explosion do not breathe fumes.
In case of fire, product decomposes in: toxic compounds, carbon oxides (CO and CO₂), nitrogen oxides (NO_x) and smokes.
Vapours are heavier than air and spread above ground.
Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.
5. 3. Advice for firefighters: Use a self-contained breathing apparatus and also a protective suit.

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| 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.
Avoid contact with skin, eyes, or clothing.
Ensure adequate ventilation.
Remove all sources of ignition.
Concerning personal protective equipment to use, see item 8. |
| 6. 2. Environmental precautions: | Prevent liquid from entering sewers, watercourses, underground or low areas. Relevant water authorities should be notified of any large spillage to water course or drain.
Concerning disposal elimination after cleaning, see item 13. |
| 6. 3. Methods and material for containment and cleaning up: | Soak up with absorbent material (for example sand, saw dust, neutral absorbent granule, silica gel).
Shovel into suitable and closed container for disposal.
Dispose as hazardous waste. (see item nr 13) |
| 6. 4. Reference to other sections: | 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: | Avoid all eyes and skin contact and do not breathe vapour and mist.
Do not eat, drink and do not smoke in areas where product is used.
Wear personal protective equipment (see item 8). |
| 7. 1. 2. Technical condition(s): | Maximum handling temperature: 50°C.
Provide for appropriate exhaust ventilation at places of vapours accumulation. |
| 7. 2. Storage: | |
| 7. 2. 1. Conditions for safe storage, including any incompatibilities: | Keep out of the reach of children. |
| 7. 2. 2. Technical condition(s): | Not flammable and waterproof underground retention basin. |
| 7. 2. 3. Storage condition(s): | Keep container tightly closed and at a temperature not exceeding (°C): 50°C
Keep away from sources of ignition - No smoking.
Keep container in a well ventilated place. |
| 7. 2. 4. Separation of incompatible product(s): | Keep away from: strong acids, and oxidising compounds. |
| 7. 2. 5. Packaging / tank material: | made of the same material as the supply container. |
| 7. 2. 6. Unsuitable packaging materials: | - Avoid certain plastics which are soluble in product.
- rubbers |
| 7. 3. Specific end use(s): | None reasonably foreseeable. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| 8. 1. Control parameters: | |
| 8. 1. 1. Exposure limit(s): | • tetrachloroethylene : VME ppm = 50 - VME mg/m ³ = 339 - VLE ppm = 200 - VLE mg/m ³ = 1357 |
| 8. 1. 2. Engineering measure(s): | Ensure adequate ventilation, especially in confined areas.
To protect against splashes from pouring. |
| 8. 2. Exposure controls: | |

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8. 2. 1. Respiratory protection:	In order to avoid inhalation of mist/vapour, all spraying must be done wearing adequate respirator. gas filter type: A
8. 2. 2. Hand protection:	waterproof gloves Wear suitable gloves. : Copolymère VF2-HFP (Fluoroelastomère) 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:	Wear security glasses which protect from splashes.
8. 3. Hygiene measure(s):	Do not eat, drink, or smoke during work. Keep away from food, drink and animal feed.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

9. 1. 1. Appearance:	liquid
9. 1. 2. Colour:	amber
9. 1. 3. Odour:	characteristic, strong
9. 1. 4. PH:	Not applicable.
9. 1. 5. Boiling point/range:	> 120 °C
9. 1. 6. Flash point:	non-flammable products
9. 1. 7. Auto-ignition temperature:	> 250 °C
9. 1. 8. Explosion limits:	No data available.
9. 1. 9. Relative density (water = 1):	1.380
9. 2. Other information:	
9. 2. 1. Water solubility:	insoluble
9. 2. 2. Fat solubility:	completely soluble
9. 2. 3. Solvent solubility:	soluble in most organic solvents

10. STABILITY AND REACTIVITY

10. 1. Reactivity:	May decompose on long exposure to light.
10. 2. Chemical stability:	Stable in use and storage conditions as recommended in item 7.
10. 3. Possibility of hazardous reactions:	Not waited
10. 4. Conditions to avoid:	To avoid thermal decomposition, do not overheat. NO open flames, NO sparks, and NO smoking.
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 and nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects:	No available information on preparation.
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11. 2. Acute toxicity:
- 11. 2. 1. Inhalation: see item nr 3 :
tétrachloroéthylène
 - 11. 2. 2. Skin contact: No data available.
 - 11. 2. 3. Eyes contact: No data available.
 - 11. 2. 4. Ingestion: see item nr 3 :
tétrachloroéthylène
11. 3. Sensitisation: May cause sensitisation of susceptible persons by skin contact.

12. ECOLOGICAL INFORMATION

12. 1. Toxicity: No ecotoxicological data about this product are known.
12. 2. Persistence and degradability: Not readily biodegradable.
12. 3. Bioaccumulative potential: None bioaccumulation.
logPow : 2.53
12. 4. Mobility in soil: Water: Significant evaporation and percolation
Ground/sediments: significant evaporation and percolation
Air: The product evaporates in atmosphere.
12. 5. Results of PBT and vPvB assessment: This product is not a substance PBT or vPvB, or it does not contain.
12. 6. Other adverse effects: No data available.
12. 6. 1. Toxicity to fish: see item nr 3 :
tétrachloroéthylène

13. DISPOSAL CONSIDERATIONS

13. 1. Waste treatment methods: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Do not dispose of waste into sewer.
Can be incinerated according to local regulations.
13. 2. Contaminated packaging: This container is exclusively intended for this product.
Empty containers can be dumped according to local legislation.

14. TRANSPORT INFORMATION

14. 1. General information(s): Transport followed ADR, IMDG, IATA
14. 2. UN number: 3082
14. 2. 1. UN proper shipping name: MATTERS DANGEROUS FROM THE POINT OF VIEW OF THE LIQUID ENVIRONMENT, N.S.A.
14. 3. Land (Road / Railway: ADR/RID):
- 14. 3. 1. Transport hazard class(es): 9
 - 14. 3. 2. Packing group: III
 - 14. 3. 3. ADR/RID-Labels: 9
 - 14. 3. 4. Code danger: 90
 - 14. 3. 5. Classification code: M6
 - 14. 3. 6. Packing instructions: P001, IBC03, LP01, R001
14. 4. Sea (IMDG):
14. 5. Air (ICAO/IATA):

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| 14. 6. Environmental hazards: | Toxic 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. |

15. REGULATORY INFORMATION

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| 15. 1. Safety, health and environmental regulations/legislation specific for the substance or mixture: | Payment 1907/2006 concerning ' recording, ' evaluation and ' authorization of chemical substances, as well as the restrictions applicable to these substances.... as modified. |
| 15. 2. Chemical safety assessment: | No data available. |

16. OTHER INFORMATION

- | | |
|---|---|
| 16. 1. Text of the phrases listed in section 3: | H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H411 Toxic to aquatic life w ith long lasting effects. |
| 16. 2. Important remarks: | Information in this safety data sheet is based on actual know ledge in our possession and our experience.
It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users.
No liability will be accepted (except as otherw ise provided by law) arising out of the use of information supplied in this data sheet. |
| 16. 3. Restrictions: | This information relates to the specific material designated and may not be valid in combination w ith other product(s). |
| 16. 4. History: | |
| 16. 4. 1. First edition date: | 15/10/2002 |
| 16. 4. 2. Previous revision date: | 5/02/2013 |
| 16. 4. 3. Review date: | 20/05/2015 |
| 16. 4. 4. Version: | 5 |
| 16. 4. 5. Review chapter(s) n°: | CLP |
| 16. 5. Written by: | SELD |