



Product code	6245-NPF	Page 1 of 12
Product name	<b>RIVET 24 EC</b>	September 2018
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes September 2017

## SAFETY DATA SHEET

### Rivet 24 EC

Revision: Sections containing a revision or new information are marked with a ♣.

#### ♣ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING



- 1.1. **Product identifier** ..... **Rivet 24 EC**  
**Contains hydrocarbons, C10-C13, aromatics,**  
**< 1% naphthalene**
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** ..... Can be used as herbicide only.
- 1.3. **Details of the supplier of the safety data sheet** **CHEMINOVA A/S**, a subsidiary of FMC Corporation  
Thyborønvej 78  
DK-7673 Harboøre  
Denmark  
[SDS.Ronland@fmc.com](mailto:SDS.Ronland@fmc.com)
- 1.4. **Emergency telephone number**  
Medical emergencies:
- |  |   |
|--|---|
| Austria: +43 1 406 43 43                             | Norway: +47 22 591300   |
| Belgium: +32 70 245 245                              | Poland: +48 22 619 66 54<br>+48 22 619 08 97                    |
| Bulgaria: +359 2 9154 409                            | Portugal: 808 250 143 (in Portugal only)<br>+351 21 330 3284    |
| Cyprus: 1401   | Romania: +40 21318 3606   |
| Czech Republic: +420 224 919 293<br>+420 224 915 402 | Scotland: +8454 24 24 24  |
| Denmark: +45 82 12 12 12                             | Slovakia: +421 2 54 77 4 166                                    |
| England and Wales: 111                               | Slovenia: +386 41 650 500                                       |
| France: +33 (0) 1 45 42 59 59                        | South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) |
| Finland: +358 9 471 977                              | Spain: +34 91 562 04 20   |
| Greece: 30 210 77 93 777                             | Sweden: +46 08-331231<br>112                                    |
| Hungary: +36 80 20 11 99                             | Switzerland: 145  |
| Ireland (Republic): +353 1 837 9964                  | Turkey: 114   |
| Italy: +39 02 6610 1029                              | U.S.A. & Canada: +1 800 / 331 3148 (ProPharma)                  |
| Lithuania: +370 523 62052<br>+370 687 53378          | All other countries: +1 651 / 632 6793 (ProPharma - Collect)    |
| Luxembourg: +352 8002 5500                           |   |
| Netherlands: +31 30 274 88 88                        |   |

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)  
All other countries: +1 703 / 741 5970 (CHEMTREC - Collect)

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## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1. Classification of the substance or mixture</b>	Aspiration toxicity: Category 1 (H304) Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)
WHO classification .....	Class III, slightly hazardous
Health hazards .....	The product may cause aspiration pneumonia.
Environmental hazards .....	The product is a herbicide and is therefore expected to be harmful to all green plants.
<b>2.2. Label elements</b>	
<i>According to EU Reg. 1272/2008 as amended</i>	
Product identifier .....	Rivet 24 EC Contains hydrocarbons, C10-C13, aromatics, < 1% naphthalene
Hazard pictograms (GHS08, GHS09)	 
Signal word .....	Danger
Hazard statements	
H304 .....	May be fatal if swallowed and enters airways.
H410 .....	Very toxic to aquatic life with long lasting effects.
Supplementary hazard statements	
EUH066 .....	Repeated exposure may cause skin dryness and cracking.
EUH401 .....	To avoid risks to human health and the environment, comply with the instructions of use.
Precautionary statements	
P273 .....	Avoid release to the environment.
P301+P310 .....	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 .....	Do NOT induce vomiting.
P391 .....	Collect spillage.
P405 .....	Store locked up.
P501 .....	Dispose of contents/container as hazardous waste.
<b>2.3. Other hazards</b> .....	None of the ingredients in the product meets the criteria for being PBT or vPvB.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.1. Substances</b> .....	The product is a mixture, not a substance
<b>3.2. Mixtures</b> .....	See section 16 for full text of hazard statements.
<i>Active ingredient</i>	
<b>Carfentrazone-ethyl</b> .....	Content: < 25% w/w

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CAS name .....	Benzenepropanoic acid, $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazole-1-yl]-4-fluoro, ethyl ester
CAS no. ....	128639-02-1
IUPAC name(s) .....	Ethyl 2-chloro-3-(2-chloro-5-(4-difluoromethyl)-3-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)-4-fluorophenylpropanoate
ISO name/EU name .....	Carfentrazone-ethyl
EC no. (EINECS no.) .....	None
EU index no. ....	607-309-00-5
Molecular weight .....	412.2
Classification of the ingredient .....	Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)

<u>Reportable ingredients</u>	Content (% w/w)	CAS no.	EC no.	Classification
Hydrocarbons, C10-C13, aromatics, < 1% naphthalene Reg. no. 01-2119451097-39	< 70		922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)
Calcium dodecylbenzenesulphonate	1.5	26264-06-2	EINECS no.: 247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

Inhalation .....	If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
Skin contact .....	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. Get medical attention if irritation develops.
Eye contact .....	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention if irritation develops.
Ingestion .....	Let the exposed person rinse mouth and drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.

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

Irritation, headache, dizziness.

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

Immediate medical attention is required in case of ingestion.  
It may be helpful to show this safety data sheet to physician.

Notes to physician .....

A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

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The product contains petroleum distillates which may pose an aspiration pneumonia hazard.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

- 5.1. **Extinguishing media** ..... Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
- 5.2. **Special hazards arising from the substance or mixture** ..... The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen fluoride, hydrogen chloride, sulphur dioxide and various fluorinated and chlorinated organic compounds.
- 5.3. **Advice for firefighters** ..... Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing. It is advisable for firemen to avoid direct contact with the product such as splashing.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1. **Personal precautions, protective equipment and emergency procedures** ..... It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.
- In case of large spill (involving 10 tonnes of the product or more):
1. use personal protection equipment; see section 8
  2. call emergency telephone no.; see section 1
  3. alert authorities.
- Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.
- Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Remove sources of ignition.
- 6.2. **Environmental precautions** ..... Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.
- 6.3. **Methods and materials for containment and cleaning up** ..... It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).
- If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in

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suitable containers. Clean area with much water and detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

- 6.4. **Reference to other sections** ..... See subsection 8.2. for personal protection.  
See section 13 for disposal.

<b>SECTION 7: HANDLING AND STORAGE</b>
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- 7.1. **Precautions for safe handling** .... In an industrial environment, it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job.  
Wash

Inhalation of vapours of the product can cause lowered consciousness, which increases the risks of operating machinery and driving.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

- 7.2. **Conditions for safe storage, including any incompatibilities** The product is stable under normal conditions of warehouse storage.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

- 7.3. **Specific end use(s)** ..... The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

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**♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. <b>Control parameters</b> .....	To our knowledge, personal exposure limits have not been established for the active ingredient in this product.
<b>Aromatic hydrocarbons</b> .....	100 ppm total hydrocarbon is recommended.  However, other exposure limits defined by local regulations may exist and must be observed.
<b>Carfentrazone-ethyl</b>	
DNEL .....	Not established
PNEC, aquatic environment .....	EFSA has established an AOEL of 0.6 mg/kg bw/day 1.1 µg/l
<b>Aromatic hydrocarbons</b>	
DNEL, dermal .....	12.5 mg/kg bw/day
DNEL, inhalation .....	151 mg/m <sup>3</sup>
PNEC, aquatic environment .....	Not applicable

8.2. **Exposure controls** ..... When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves .....

Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection. It is recommended to limit the work to be done manually.



Eye protection .....

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant

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material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on physical and chemical properties

Appearance .....	Dark brown liquid, translucent
Odour .....	Chemical smell
Odour threshold .....	Not determined
pH .....	1% dispersion in water: 4.62
Melting point/freezing point .....	Not determined
Initial boiling point and boiling range	<b>Aromatic hydrocarbons</b> : 200 - 310°C
Flash point .....	Above 79°C (closed cup)
Evaporation rate .....	(Butyl acetate = 1) <b>Aromatic hydrocarbons</b> : < 0.01
Flammability (solid/gas) .....	Not applicable (liquid)
Upper/lower flammability or explosive limits .....	<b>Aromatic hydrocarbons</b> : 0.6 - 7.0 vol% ( $\approx$ 0.6 - 7.0 kPa)
Vapour pressure .....	<b>Carfentrazone-ethyl</b> : $7.2 \times 10^{-6}$ Pa at 20°C <b>Aromatic hydrocarbons</b> : < 0.1 kPa at 25°C
Vapour density .....	(Air = 1) <b>Aromatic hydrocarbons</b> : > 1
Relative density .....	1.0793 at 20°C
Solubility(ies) .....	Solubility of <b>carfentrazone-ethyl</b> at 20°C in ethanol > 2000 g/l hexane 30 g/l water 12 mg/l
Partition coefficient n-octanol/water	<b>Carfentrazone-ethyl</b> : $\log K_{ow} = 3.36$ at 20°C <b>Aromatic hydrocarbons</b> : some of the main components have $\log K_{ow} = 4.0 - 4.4$ at 25°C by model calculation
Autoignition temperature .....	Not determined
Decomposition temperature .....	Not determined
Viscosity .....	12.31 mm <sup>2</sup> /s at 20°C, 6.11 mm <sup>2</sup> /s at 40°C
Explosive properties .....	Not explosive
Oxidising properties .....	Not oxidising

### 9.2. Other information

Miscibility .....	The product is dispersible in water.
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## SECTION 10: STABILITY AND REACTIVITY

10.1. <b>Reactivity</b> .....	To our knowledge, the product has no special reactivities.
10.2. <b>Chemical stability</b> .....	The product is stable during normal handling and storage at ambient temperatures.
10.3. <b>Possibility of hazardous reactions</b>	None known.
10.4. <b>Conditions to avoid</b> .....	Heating of the product will evolve harmful and irritant vapours.
10.5. <b>Incompatible materials</b> .....	None known.

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10.6. **Hazardous decomposition products** See subsection 5.2.

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1. **Information on toxicological effects** \* = Based on available data, the classification criteria are not met.

Product

Acute toxicity ..... The product is practically non-toxic. \* However, it should always be treated with the usual care of handling chemicals.

The acute toxicity of the product is measured as:

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: 4077 mg/kg  
 - skin LD<sub>50</sub>, dermal, rat: > 4000 mg/kg  
 - inhalation LC<sub>50</sub>, inhalation, rat: > 6.31 mg/l/4 h

Skin corrosion/irritation ..... The product may be slightly irritating to skin. \*

Serious eye damage/irritation ..... The product may be slightly irritating to eyes. \*

Respiratory or skin sensitisation ... The product is not sensitising. \*

Germ cell mutagenicity ..... The product contains no ingredients known to be mutagenic. \*

Carcinogenicity ..... The product contains no ingredients known to be carcinogenic. \*

Reproductive toxicity ..... The product contains no ingredients known to have adverse effects on reproduction. \*

STOT – single exposure ..... To our knowledge, specific effects after single exposure have not been reported. \*

STOT – repeated exposure ..... The following was measured on the active ingredient carfentrazone-ethyl:  
 NOAEL: 50 ppm (3 mg/kg bw/day) in a 2-year rat study.

Aspiration hazard ..... The product presents an aspiration hazard.

Symptoms and effects, acute and delayed Slight irritation may occur. On inhalation or ingestion: headache, dizziness.

Carfentrazone-ethyl

Toxicokinetics, metabolism and distribution Carfentrazone-ethyl is rapidly absorbed and widely distributed in the body after oral intake. It is extensively metabolised and rapidly excreted, almost completely within 7 days. There is no evidence of accumulation.

Acute toxicity ..... The substance is not considered as harmful. \* The acute toxicity of the substance is measured as:

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: > 5000 mg/kg  
 - skin LD<sub>50</sub>, dermal, rat: > 4000 mg/kg  
 - inhalation LC<sub>50</sub>, inhalation, rat: > 5.09 mg/l/4 h



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Skin corrosion/irritation Not irritating to skin. \*

Serious eye damage/irritation ..... Not irritating to eyes. \*

Respiratory or skin sensitisation ... Not sensitising. \*

Hydrocarbons, C10-C13, aromatics, < 1% naphthalene

Acute toxicity ..... The substance is not considered as harmful. \* The acute toxicity as measured on a similar product is:

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: > 5000 mg/kg (method OECD 401)

- skin LD<sub>50</sub>, dermal, rat: > 2000 mg/kg (method OECD 402)

- inhalation LC<sub>50</sub>, inhalation, rat: > 4.7 mg/l (method OECD 403)

Skin corrosion/irritation ..... Can cause skin dryness (measured on similar products; method OECD 404).

Serious eye damage/irritation ..... May cause mild, short-lasting discomfort to eyes (measured on similar products; method OECD 405). \*

Respiratory or skin sensitisation ... Not expected to cause respiratory or skin sensitisation (measured on similar products; method OECD 406). \*

Aspiration hazard ..... Aromatic hydrocarbons present an aspiration hazard.

Calcium dodecylbenzenesulphonate

Acute toxicity ..... The substance is not considered as harmful by skin contact, ingestion and inhalation. \* The acute toxicity is measured as:

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat: 4000 mg/kg

- skin LD<sub>50</sub>, dermal, rat: not available

- inhalation LC<sub>50</sub>, inhalation, rat: not available

Skin corrosion/irritation ..... Irritating to skin.

Serious eye damage/irritation ..... Irritating to eyes with the potential to cause permanent eye damage.

**SECTION 12: ECOLOGICAL INFORMATION**

12.1. **Toxicity** ..... The product is a herbicide and therefore expected to be harmful to all green plants. It is harmful to fish and aquatic invertebrates. It is considered as less harmful to birds, insects and soil micro- and macroorganisms.

The following has been measured on the product:

- Fish ..... 96 h-LC<sub>50</sub>: 4.42 mg/l

- Daphnids ..... 48 h-EC<sub>50</sub>: 5.66 mg/l

- Algae ..... 72-h E<sub>r</sub>C<sub>50</sub>: 0.135 mg/l

12.2. **Persistence and degradability** .... **Carfentrazone-ethyl** is not readily biodegradable. Primary degradation in the environment is rapid, usually less than one day, but degradation products are degraded much slower.

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**Aromatic hydrocarbons** are readily biodegradable as measured according to OECD guidelines. However, they are not always rapidly degraded in the environment, but are expected to be degraded at a moderate rate, depending on circumstances.

The product contains small amounts of other ingredients which are not readily biodegradable and may not be degradable in a waste water treatment plant.

12.3. **Bioaccumulative potential** ..... See section 9 for octanol-water partition coefficient.

**Carfentrazone-ethyl** is not expected to bioaccumulate either. A Bioaccumulation Factor (BCF) of 176 was measured for whole fish.

**Aromatic hydrocarbons** have a potential to bioaccumulate if continuous exposure is maintained. Most components can be metabolised by many organisms. Bioaccumulation factors (BCFs) of some of the main components are 1200 - 3200 by model calculation.

12.4. **Mobility in soil** ..... **Carfentrazone-ethyl** and its soil metabolites have a potential for being mobile, but were not detected in a field leaching study.

**Aromatic hydrocarbons** are not mobile in the environment, but are volatile and will evaporate to the air if released onto water or on the surface of soil. They float and can migrate to sediment.

12.5. **Results of PBT and vPvB assessment** ..... None of the ingredients meets the criteria for being PBT or vPvB.

12.6. **Other adverse effects** ..... Other relevant hazardous effects in the environment are not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods** ..... Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.

Disposal of waste and packagings must always be in accordance with all applicable local regulations.

Disposal of product ..... According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Disposal of packaging ..... It is recommended to consider possible ways of disposal in the following order:  
 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.

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2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

#### **SECTION 14: TRANSPORT INFORMATION**

##### *ADR/RID/IMDG/IATA/ICAO classification*

- |   |   |
|---|---|
| 14.1. <b>UN number</b> .....  | 3082  |
| 14.2. <b>UN proper shipping name</b> .....  | Environmentally hazardous substance, liquid, n.o.s. (carfentrazone-ethyl and alkyl(C3-C6)benzenes)                          |
| 14.3. <b>Transport hazard class(es)</b> .....   | 9   |
| 14.4. <b>Packing group</b> .....  | III   |
| 14.5. <b>Environmental hazards</b> .....  | Marine pollutant  |
| 14.6. <b>Special precautions for user</b> .....   | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment. |
| 14.7. <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b> ..... | The product is not transported in bulk by ship.   |

#### **SECTION 15: REGULATORY INFORMATION**

- |   |   |
|---|---|
| 15.1. <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> ..... | Seveso category (Dir. 2012/18/EU): dangerous for the environment.             |
| 15.2. <b>Chemical safety assessment</b> .....   | A chemical safety assessment is not required to be included for this product. |

#### **♣ SECTION 16: OTHER INFORMATION**

- |   |   |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
|---|---|------|------------------------------------|-----|----------------------------|------|-----------|------|-------------------------|----|---|------------------|--------------------------|--------------------------------|--|------|--------------------------------|
| Relevant changes in the safety data sheet ..... | Minor corrections only.   |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| List of abbreviations .....                     | <table border="0"> <tr> <td>AOEL</td> <td>Acceptable Operator Exposure Level</td> </tr> <tr> <td>CAS</td> <td>Chemical Abstracts Service</td> </tr> <tr> <td>Dir.</td> <td>Directive</td> </tr> <tr> <td>DNEL</td> <td>Derived No Effect Level</td> </tr> <tr> <td>EC</td> <td>Emulsifiable Concentrate, or European Community</td> </tr> <tr> <td>EC<sub>50</sub></td> <td>50% Effect Concentration</td> </tr> <tr> <td>E<sub>r</sub>C<sub>50</sub></td> <td>50% Effect Concentration based on growth</td> </tr> <tr> <td>EFSA</td> <td>European Food Safety Authority</td> </tr> </table> | AOEL | Acceptable Operator Exposure Level | CAS | Chemical Abstracts Service | Dir. | Directive | DNEL | Derived No Effect Level | EC | Emulsifiable Concentrate, or European Community | EC <sub>50</sub> | 50% Effect Concentration | E <sub>r</sub> C <sub>50</sub> | 50% Effect Concentration based on growth | EFSA | European Food Safety Authority |
| AOEL  | Acceptable Operator Exposure Level  |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| CAS   | Chemical Abstracts Service  |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| Dir.  | Directive   |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| DNEL  | Derived No Effect Level   |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| EC  | Emulsifiable Concentrate, or European Community   |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| EC <sub>50</sub>                                | 50% Effect Concentration  |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| E <sub>r</sub> C <sub>50</sub>                  | 50% Effect Concentration based on growth  |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |
| EFSA  | European Food Safety Authority  |      |                                    |     |                            |      |           |      |                         |    |   |                  |                          |                                |  |      |                                |

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EINECS	European INventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
IBC	International Bulk Chemical code
ISO	International Organisation for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	50% Lethal Concentration
LD <sub>50</sub>	50% Lethal Dose
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NOAEL	No Observed Adverse Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
Reg.	Registration, or Regulation
STOT	Specific Target Organ Toxicity
vPvB	very Persistent, very Bioaccumulative
WHO	World Health Organisation

References ..... Data measured on this product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification ..... Test data

Used hazard statements .....  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness and cracking.  
EUH401 To avoid risks to human health and the environment, comply with the instructions of use.

Advice on training ..... This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB