

# SAFETY DATA SHEET



## Hammer 400EC Herbicide

Version 1.0      Revision Date: 06.06.2022      SDS Number: 50001553      Date of last issue: -  
Date of first issue: 06.06.2022

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hammer 400EC Herbicide

Other means of identification : CARFETNRAZONE-ETHYL 400 G/L EC

#### Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Level 2, 12 Julius Avenue,  
North Ryde NSW 2113

Telephone : +6161029887900

Emergency telephone number : For leak, fire, spill or accident emergencies, call:  
1800 033 111 (Ixon)

Medical emergency:  
1 800 033 111 (Transport and 24 h Medical information)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4

Serious eye damage/eye irritation : Category 1

Carcinogenicity : Category 2

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :

Signal word : Danger

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- Hazard statements : H227 Combustible liquid.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
- Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- Storage:**  
P403 Store in a well-ventilated place.  
P405 Store locked up.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Very toxic to aquatic life with long lasting effects.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
carfentrazone-ethyl (ISO)	128639-02-1	>= 30 -< 60
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 30 -< 60
Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine	68584-24-7	>= 3 -< 10

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## SECTION 4. FIRST AID MEASURES

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- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.  
Causes serious eye damage.  
Suspected of causing cancer.
- Notes to physician : Treat symptomatically.  
It may be helpful to show this safety data sheet to physician.
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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Regular foam  
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Chlorine compounds

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Fluorine compounds

- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Hazchem Code : •3Z
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.
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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
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Conditions for safe storage : No smoking.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : < 30 °C

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH

#### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : brown

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Odour : odourless

pH : 2.5 - 6.5

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 62 °C

Self-ignition : No data available

Relative density : 1.1

Solubility(ies)  
Water solubility : emulsifiable

Partition coefficient: n-  
octanol/water : No data available

Explosive properties : Not explosive

Oxidizing properties : The product is not oxidizing.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-  
tions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents  
Strong acids and strong bases

Hazardous decomposition  
products : Nitrogen oxides (NOx)  
Carbon oxides  
Halogenated compounds

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

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### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: FIFRA 81.01

Acute inhalation toxicity : LC50 (Rat): > 5.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Solvent naphtha (petroleum), heavy arom.:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4.778 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

#### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.  
Remarks: Based on data from similar materials

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Remarks : Extremely corrosive and destructive to tissue.

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### Components:

#### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Method : US EPA Test Guideline OPP 81-5  
Result : No skin irritation

#### **Solvent naphtha (petroleum), heavy arom.:**

Species : Rabbit  
Result : No skin irritation

#### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Result : Skin irritation  
Remarks : Based on data from similar materials

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Result : slight irritation  
Method : EPA OPP 81-4

#### **Solvent naphtha (petroleum), heavy arom.:**

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

#### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Result : Irreversible effects on the eye  
Remarks : Based on data from similar materials

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

### Components:

#### **carfentrazone-ethyl (ISO):**

Species : Guinea pig  
Method : US EPA Test Guideline OPP 81-6  
Result : Does not cause skin sensitisation.



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**Solvent naphtha (petroleum), heavy arom.:**

Test Type : Maximisation Test  
Species : Guinea pig  
Result : Not a skin sensitizer.  
Remarks : Based on data from similar materials

**Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Result : Does not cause skin sensitisation.  
Remarks : Based on data from similar materials

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

**Components:****carfentrazone-ethyl (ISO):**

Germ cell mutagenicity - Assessment : No genotoxic potential

**Solvent naphtha (petroleum), heavy arom.:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Ingestion  
Result: negative

**Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Result: negative  
Remarks: Based on data from similar materials

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### **Carcinogenicity**

Suspected of causing cancer.

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Result : negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

##### **Solvent naphtha (petroleum), heavy arom.:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

##### **Solvent naphtha (petroleum), heavy arom.:**

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Inhalation  
Result: negative

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Ingestion  
Symptoms: Maternal effects  
Method: OECD Test Guideline 414  
Result: negative

##### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Effects on foetal development : Species: Mouse  
Application Route: Oral  
Symptoms: Maternal effects

### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Remarks : No significant adverse effects were reported

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### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

Not classified based on available information.

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Solvent naphtha (petroleum), heavy arom.:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

### **Components:**

#### **carfentrazone-ethyl (ISO):**

Species : Rat  
NOAEL : 58 mg/kg  
Application Route : Oral  
Exposure time : 90 days

### **Solvent naphtha (petroleum), heavy arom.:**

Species : Rat  
NOAEL : 300 mg/kg  
Application Route : Oral - gavage  
Exposure time : 13 weeks  
Remarks : mortality

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **carfentrazone-ethyl (ISO):**

The substance does not have properties associated with aspiration hazard potential.

### **Solvent naphtha (petroleum), heavy arom.:**

May be fatal if swallowed and enters airways.

### **Neurological effects**

### **Components:**

#### **carfentrazone-ethyl (ISO):**

No neurotoxicity observed in animal studies

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### Further information

#### Product:

Remarks : Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **carfentrazone-ethyl (ISO):**

- Toxicity to fish : LC50 (Fish): 1.6 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 9.8 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Anabaena flos-aquae (cyanobacterium)): 0.012 mg/l  
Exposure time: 72 h
- NOEC (algae): 0.001 mg/l  
Exposure time: 96 h
- EC50 (Lemna gibba (gibbous duckweed)): 0.0057 mg/l  
Exposure time: 14 d
- Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.0187 mg/l  
Exposure time: 21 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.22 mg/l  
Exposure time: 21 d
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 820 mg/kg

Remarks: No significant adverse effect on nitrogen mineralization.  
No significant adverse effect on carbon mineralization.

- Toxicity to terrestrial organisms : LD50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm  
End point: Acute oral toxicity
- LD50 (Colinus virginianus (Bobwhite quail)): > 5,620 ppm  
End point: Acute oral toxicity
- LD50 (Apis mellifera (bees)): > 200 µg/bee  
End point: Acute oral toxicity
- LD50 (Apis mellifera (bees)): > 200 µg/bee  
End point: Acute contact toxicity

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### **Solvent naphtha (petroleum), heavy arom.:**

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 3 mg/l  
Exposure time: 96 h  
Method: EPA OPP 72-1
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.1 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (green algae)): 0.22 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- EL50 (Pseudokirchneriella subcapitata (green algae)): 7.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 0.103 mg/l  
Exposure time: 28 d  
Method: QSAR
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 0.18 mg/l  
Exposure time: 21 d  
Method: QSAR

### **Persistence and degradability**

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Biodegradability : Result: Not readily biodegradable.

### **Solvent naphtha (petroleum), heavy arom.:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 60.74 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### **Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Based on data from similar materials

### **Bioaccumulative potential**

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 176  
Remarks: See section 9 for octanol-water partition coefficient.

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### **Solvent naphtha (petroleum), heavy arom.:**

Partition coefficient: n-octanol/water : log Pow: 3.17 - 5.6  
Method: QSAR

### **Mobility in soil**

#### **Components:**

#### **carfentrazone-ethyl (ISO):**

Distribution among environmental compartments : Remarks: Mobile in soils

### **Other adverse effects**

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Carfentrazone-ethyl)  
Class : 9  
Packing group : III  
Labels : 9

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Carfentrazone-ethyl)

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Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)

Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
Remarks : Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 L or less for liquids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### ADG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : •3Z  
Remarks : Environmentally hazardous substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the ADG Code when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg / liters, or IBCs

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### SECTION 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 7

APVMA Code: 63228

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

#### The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
  
ETHYL (RS)-2-CHLORO-3-(2-CHLORO-5-[4-(DIFLUOROMETHYL)-4,5-DIHYDRO-3-METHYL-5-OXO-1H-1,2,4-TRIAZOL-1-YL]-4-FLUOROPHENYL)PROPIONATE  
Fatty acid di-ester

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

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### SECTION 16. OTHER INFORMATION

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Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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# SAFETY DATA SHEET



## Hammer 400EC Herbicide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	06.06.2022	50001553	Date of first issue: 06.06.2022

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