

SAFETY DATA SHEET



ENERGY

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/08/22	50002442	Date of first issue: 2022/08/22

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ENERGY

Recommended use of the chemical and restrictions on use

Recommended use : A fertilizer with micronutrients for use in agriculture and horticulture

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC Corporation

Address : 2929 WALNUT ST
PHILADELPHIA PA 19104
USA

Emergency telephone : For leak, fire, spill or accident emergencies, call:
+(84)-444581938 (CHEMTREC Vietnam)

Medical emergency:
All other countries: +1 651 / 632-6793 (Collect)

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 5

Skin corrosion/irritation : Category 3

Serious eye damage/eye irritation : Category 2B

Long-term (chronic) aquatic hazard : Category 3

Short-term (acute) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Warning

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Hazard Statements : H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H320 Causes eye irritation.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
ammonium dihydrogenorthophosphate	7722-76-1	≥ 25 - ≤ 50
Humic acids	1415-93-6	≥ 5 - ≤ 10
ammonium nitrate	6484-52-2	$\geq 0,1$ - $\leq 2,5$

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If breathing has stopped, apply artificial respiration.
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.

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- | | |
|---|---|
| In case of eye contact | : Immediately flush eye(s) with plenty of water.
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.
Immediately give large quantities of water to drink.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : May be harmful if swallowed.
Causes mild skin irritation.
Causes serious eye irritation. |
| Notes to physician | : Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | : Dry chemical, CO2, water spray or regular foam. |
| 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.
May release toxic, irritating and/or corrosive gases.
Exposure to decomposition products may be a hazard to health. |
| 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. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13. |
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so. |

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If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Store above 40F (4.4C). Store in original containers only.
Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed.
Do not contaminate water, food or feed by storage or disposal.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
Use respiratory protection (air supplied respirator) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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

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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. Remove and wash contaminated clothing before re-use.
Protective measures	: Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Wear suitable protective equipment. When using do not eat, drink or smoke.
Hygiene measures	: Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: black
Odor	: odorless
Odor Threshold	: No data available
pH	: 6,3 (20 °C)
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 100 °C
Flash point	: No data available
Self-ignition	: does not ignite
Upper explosion limit / Upper flammability limit	: Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	23 hPa (20 °C)
Relative vapor density	:	No data available
Density	:	1,307 g/cm ³ (20 °C) 10,907 lb/gal (20 °C)
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	Not available for this mixture.
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Self-heating substances	:	The substance or mixture is not classified as self heating.
Particle size	:	No data available

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 reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	Stable under recommended storage conditions. No decomposition if stored and applied as directed. Thermal decomposition can lead to release of irritating gases and vapors. In case of fire hazardous decomposition products may be

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produced such as:
Toxic gases
Carbon oxides
Zinc oxide fumes.
Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

May be harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 4.805 mg/kg
Method: Calculation method

Components:**ammonium dihydrogenorthophosphate:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC0 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials
no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402

ammonium nitrate:

Acute oral toxicity : LD50 (Rat, male and female): 2.950 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes mild skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:**ammonium dihydrogenorthophosphate:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

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Humic acids:

Result : Mild skin irritation

ammonium nitrate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:**ammonium dihydrogenorthophosphate:**

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Humic acids:

Result : Eye irritation

ammonium nitrate:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Species : Guinea pig
Assessment : Not a skin sensitizer.
Result : Not a skin sensitizer.

Components:**ammonium dihydrogenorthophosphate:**

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

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ammonium nitrate:

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:**ammonium dihydrogenorthophosphate:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
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	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials
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	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
--	--

Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
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ammonium nitrate:

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
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	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
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	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
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Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

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Components:**ammonium dihydrogenorthophosphate:**

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 250, 750, 1500 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat
Application Route: Oral
Dose: 250, 750, 1500 milligram per kilogram
General Toxicity Maternal: NOAEL: \geq 1.500 mg/kg body weight
Developmental Toxicity: NOAEL: 1.500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

ammonium nitrate:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 0, 250, 750, and 1,500 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat, male and female
Application Route: Oral
Dose: 0, 250, 750, and 1,500 milligram per kilogram
General Toxicity Maternal: NOAEL: \geq 1.500 mg/kg body weight
Developmental Toxicity: NOAEL: \geq 1.500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

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Components:**ammonium dihydrogenorthophosphate:**

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

ammonium nitrate:

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

Repeated dose toxicity**Components:****ammonium dihydrogenorthophosphate:**

Species : Rat, male and female
NOAEL : > 1.500 mg/kg
Application Route : Oral
Dose : 250, 750, 1500 mg/kg/day
Method : OECD Test Guideline 422
Remarks : Based on data from similar materials

ammonium nitrate:

Species : Rat, male
NOAEL : 256 mg/kg
Application Route : Oral
Exposure time : 1 year
Dose : 42, 256, 1527 mg/kg bw/day
Method : OECD Test Guideline 453
Symptoms : No adverse effects.
Remarks : Based on data from similar materials

Species : Rat, female
NOAEL : 284 mg/kg
Application Route : Oral
Exposure time : 1 year
Dose : 48, 284, 1490 mg/kg bw/d
Method : OECD Test Guideline 453
Symptoms : No adverse effects.
Remarks : Based on data from similar materials

Species : Guinea pig, male
NOAEC : 0,001 mg/l
Application Route : Inhalation
Exposure time : 4 weeks
Dose : 1 mg/m³
Method : OECD Test Guideline 412
Symptoms : No adverse effects.

Species : Rat, male
NOAEC : 0,001 mg/l
Application Route : Inhalation
Exposure time : 4 weeks

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Dose : 1 mg/m³
Method : OECD Test Guideline 412
Symptoms : No adverse effects.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****ammonium dihydrogenorthophosphate:**

Toxicity to fish : LC₅₀ (Oncorhynchus mykiss (rainbow trout)): > 85,9 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC₅₀ (Daphnia): 1.790 mg/l
aquatic invertebrates : Exposure time: 72 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : EC₅₀ (Pseudokirchneriella subcapitata (algae)): > 97,1 mg/l
plants : Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (algae)): 3,57 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC₅₀ (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

NOEC (activated sludge): 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

ammonium nitrate:

Toxicity to fish : LC₅₀ (Cyprinus carpio (Carp)): 95 - 102 mg/l
Exposure time: 48 h
Test Type: semi-static test

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 490 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Marine Diatom): > 1.700 mg/l
Exposure time: 10 d
Test Type: static test
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

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

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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable

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Packing group : Not applicable
Labels : Not applicable

IATA-DGR

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo aircraft) : Not applicable
Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : Not applicable

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

Not applicable for product as supplied.

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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

Law on Chemicals No. 06/2007/QH12

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory
TSCA : All substances listed as active on the TSCA inventory
AIIC : On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL
ENCS : Not in compliance with the inventory
ISHL : Not in compliance with the inventory

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KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

16. OTHER INFORMATION

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Full text of other abbreviations

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

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to

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