

### **1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING**

#### 1.1 Product identifier

Product name

17-0-3 P Reg 50%XCU 3%Fe + Mallet-Lambda

#### 1.2 Relevant use of the product

Applications Insecticide

#### 1.3 Manufacturer, Importer or Responsible Party

Name	FERTI TECHNOLOGIES
Address	560, Chemin Rhéaume, C.P 129
	JOL 2JO
	Saint-Michel, Québec, Canada
Telephone	450 454-7521
Contact email	adidier@fertitechno.com

#### **1.4 Emergency phone number**

Telephone

USA National Capital Poison Center: 1 800 222 1222

## 2. HAZARDS IDENTIFICATION

#### 2.1. The hazard classification of the chemical according to HCS 2012 (US-GHS)

	Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 Carc. 1 STOT RE 1 STOT RE 2	H315 H319 H335 H350 H372 H373
2.2.	Danger symbols	
2.3.	Signal word	Danger
2.4.	Hazard statements	<ul> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H350 May cause cancer</li> <li>H372 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.</li> <li>H373 May cause damage to organs (heart, thyroid, liver, blood chemistry) through prolonged or repeated exposure if inhaled.</li> </ul>
2.5.	Precautionary	
	<b>statements</b> Prevention	P201 Obtain special instructions before use.
		P202 Do not handle until all safety precautions have been read and understood.
		P260 Do not breathe dust.
		P264 Wash hands thoroughly after handling.



2.6.

classified

# SAFETY DATA SHEET 17-0-3 P Reg 50%XCU 3%Fe + Mallet-Lambda

	P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face
Pachanca	protection.
Response	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
	P330 Rinse mouth.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P314 Get medical advice/attention if you feel unwell.
Storage	P405 Store locked up.
Disposal	P501 Dispose of contents/container according to local regulations.
Description of any hazards not otherwise	Not applicable.

2.7. % ingredient(s) with unknown acute toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

	Chemical name	CAS-Nr.	Concentration %
Calcium	Limestone (>=80 - <=100%)	1317-65-3	C = 46.4 %
carbonate	Quartz (SiO <sub>2</sub> ) (20%)	14808-60-7	C = 40.4 %
	Urea (85% -95%)	57-13-6	
хси	Sulfur (4% - 13%)	7704-34-9	C = 19.8 %
XCU	Polymer Coating (<5%)	mixture	C = 19.8 %
	Non-hazardous Dye (<1%)	Trade secret	
	Carbamide, Carbonyldiamide, Carbamidic Acid) (97.5% - 99.7%)	57-13-6	
Urea	Alkalinity as ammonia (150 ppm max)		C = 18.5 %
mixture	Methylenediurea (0 % - 2.5 %)	13547-17-6	
	Biuret (0% -1.5%)	108-19-0	
Iron over	Iron Oxide (50 % – 65 %)	1309-37-1	
Iron oxy- sulfate	Iron Sulfate (10 % - 20%)	7720-78-7	C = 6.0 %
Sullate	Calcium Oxide (3 % – 5 %)	1305-78-8	
	Potassium chloride (95 % - 99.5 %)	7447-40-7	
0.0.02	Sodium chloride (0.3 % - 3.7 %)	7647-14-5	C = 4.8 %
0-0-62	Calcium and magnesium; Chloride and sulfates (0.2 % - 1.3 %)	Various	C - 4.0 /0
Oil Dri	Montmorillonite (90% - 93%)	1302-78-9	C = 3.5 %



	Quartz (7% - 10%)	14808-60-7	
	Imidacloprid (0.18 % – 0.22 %)	138261-41-3	
Mallet	Lambda-Cyhalothrin (0.036 % – 0.044 %)	91465-08-6	C = 1.1 %
Herbicide	N-methyl pyrrolidone (< 1.0 %)	872-50-4	C = 1.1 /0
	Other Ingredients Trade Secret	n/a	

### 4. FIRST AID MEASURES

Following inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided by a qualified operator. Get medical attention if irritation develops and persists.
4.2 First Aid measures after Sk	
	-
Following skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
4.3 First Aid measures after Ey	e exposure
Following eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
4.4 First Aid measures after Ing	gestion
Following ingestion	Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do not give milk or alcoholic beverages. Call a physician.
4.5 Most important symptoms	and effects, both acute and delayed
INHALATION	Respiratory irritation.
SKIN	Skin damage redness,
EYES	Serious eye damage including, scratching of the cornea, and tearing
INGESTION	May be harmful if a large quantity has been ingested.

#### 4.6 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

### **5. FIREFIGHTING MEASURES**

5.1 Extinguishing media

<u>Suitable</u>:

Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment. Small fires: Water spray, foam, dry chemical or CO2

Large fires: Water spray, fog or foam.

Unsuitable: Not applicable.

5.2 Special hazards arising from chemical or mixture during the fire

Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as:

- Sulphur oxides



	<ul> <li>Carbon monoxide</li> <li>Carbon dioxide (CO2)</li> </ul>
5.3 Special Protective Precautions or equipment for firefighters	In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

## **6. ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment	Wear personal protective equipment.
6.2 Emergency procedures	Unprotected persons must be kept away.
	Evacuate personnel to safe areas.
	Provide adequate ventilation.
	Avoid dust formation.
	Avoid breathing dust.
	Avoid contact with skin, eyes and clothing.
6.3 Methods and materials	Do not flush into surface water or sanitary sewer system.
used for containment	Prevent further leakage or spillage if safe to do so.
	Do not let product enter drains.
6.4 Clean-up procedures	Use mechanical handling equipment.
	Clean contaminated surface thoroughly.
	Pick up and arrange disposal without creating dust.
	Use a suitable vacuum cleaner.

Ammonia

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Handle with care. Wear personal protective equipment. Use only in well-ventilated areas. Avoid dust formation. Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Avoid breathing dust.
7.2 Conditions for safe storage	Avoid contact with skin, eyes and clothing. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers should be protected against falling down. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ACGIH-Threshold Limit Value (TLV)

Exposure limit values of the components: Respirable crystalline silica dust: ACGIH TLV<sup>®</sup> = 0,025 mg/m<sup>3</sup> Calcium carbonate: ACGIH TLV<sup>®</sup> = 10 mg/m<sup>3</sup>

#### 8.2 OSHA-Permissible Exposure Limit (PEL)

Exposure limit values of the components:



Component / CAS	8H (OSHA, PEL)
	mg/m <sup>3</sup>
Quartz (SiO2)	Total dust: 30 mg/m <sup>3</sup> / %SiO2+2 (OSHA Z-3)
CAS N°: 14808-60-7	Respirable: 10 mg/m <sup>3</sup> / %SiO2+2 (OSHA Z-3)
	Respirable: 250 mppcf / %SiO2+5 (OSHA Z-3)
Limestone	Total dust: 15 mg/m <sup>3</sup> (OSHA Z-1)
CAS N°: 1317-65-3	Respirable: 5 mg/m <sup>3</sup> (OSHA Z-1)
Particulates Not Otherwise	Total dust: 15 mg/m <sup>3</sup> (OSHA Z-1)
Regulated (PNOR) :	Respirable: 5 mg/m <sup>3</sup> (OSHA Z-1)
CAS N°: 1317-65-3 Particulates Not Otherwise	Respirable: 250 mppcf / %SiO2+5 (OSHA Z-3) Total dust: 15 mg/m <sup>3</sup> (OSHA Z-1) Respirable: 5 mg/m <sup>3</sup> (OSHA Z-1) Total dust: 15 mg/m <sup>3</sup> (OSHA Z-1)

#### 8.3 Any other exposure limit used or recommended by chemical manufacturer

Non applicable

#### 8.4 Engineering Controls

Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Apply technical measures to comply with the occupational exposure limits.

#### **8.5 Personal Protective Equipment**

#### Hand protection: Gloves

Gloves must be inspected prior to use. Replace when worn.

Eye protection: Do not wear contact lenses.

Wear as appropriate: Safety glasses with side-shields

#### Body protection: Long sleeved clothing

<u>Respiratory protection</u>: A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator use.

<u>Hygiene measures</u>: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information of basic physical and chemical properties

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	Appearance (physical state, colour, etc.)	Multicolored granules, solid		
	Odour	Odourless		
	Odour threshold	Not applicable		
	рН	No data available		
	Melting point/freezing point;	No data available		



Boiling point	Not applicable
Boiling Range	Not applicable
Flash point	No data available
Evaporation rate	Not applicable
Flammability	Not flammable
Upper/lower flammability or explosive limits	No data available
Oxidising properties	No data available
Vapour pressure	Not applicable
Vapour density	No data available
Density	63 lbs./ft <sup>3</sup>
Solubility in water	Partially soluble
Other Solvents	No data available
Partition coefficient (n- octanol/water)	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

## **10. STABILITY AND REACTIVITY**

10.1 Reactivity	Not reactive under normal storage and handling condition
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization does not occur.
10.4 Conditions to avoid	Keep at temperatures below 5374 °F (190 °C)
10.5 Incompatible materials	Strong oxidizing agents, Chlorates and Hypochlorites
10.6 Hazardous decomposition products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride. Hydrogen chloride. Carbon monoxide. Carbon dioxide.



## **11. TOXICOLOGICAL INFORMATION**

<b>11.1 Measures of Toxicity</b> Acute toxicity:	Ingredients:
	Urea: Acute toxicity: LD50 oral (Rat): 8471 mg/Kg
Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye damage
Respiratory or skin sensitisation:	No data available
11.2 Listed in IARC or considered carcinogen by NTP or OSHA	Quartz (SiO2) CAS N°: 14808-60-7 Group 1 (IARC), Volume 68, 100C
11.3 Further information	This product contains prismatic tremolite (e.g., cleavage fragments) as an impurity. Sufficient exposure to respirable prismatic tremolite dust may cause serious lung problems.

## **12. ECOLOGICAL INFORMATION**

12.1 Toxicity	This product is very toxic to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life. May cause eutrophication of ponds and lakes. Silica:
	Toxicity to Algae and Crustacea IC50: 440 mg/L (Exposure time: 72 Hours) Species: Algae EC50: 7600 mg/L (Exposure time: 48 Hours) Species: Daphnia
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Other adverse effects	May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC50, OECD Guidelines 203 (rainbow trout): >86mg/L.



### **13. DISPOSAL CONSIDERATIONS**

13.1 Disposal methods to employ	Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Empty containers should be taken to an approved waste handling site for recycling or disposal.
13.2 Description of appropriate disposal containers to use	No data available
13.3 Description of the physical and chemical properties that may affect disposal activities	No data available
13.4 Language discouraging sewage disposal.	No data available
13.5 Any special precautions for landfills or incineration activities	No data available

## **14. TRANSPORT INFORMATION**

UN Number	
UN proper shipping name	
Transport hazard classes	
Packing group	
Environmental hazards	
Guidance On transport in bulk	
Special precautions for user	

## **15. REGULATORY INFORMATION**

National and/or regional regulatory information of the chemical or mixtures Inventories:

US. Toxic Substances Control Act: No data available



#### OSHA Hazards: Carcinogen

<u>Clean Air Act:</u> This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

## **16. OTHER INFORMATION**

#### Indications on the revision

First edition: 15/02/2016 Addition of all fields as required by regulation (US) HCS 1910.1200 [HCS 2012]. Update of the classification information and update of related sections accordingly.

#### Abbreviations and acronyms used

ACGIH: American conference of governmental and industrial hygienist CAS N°.: Chemical Abstract Service Number CFR: Code of Federal Regulations EC50: Half maximal effective concentration HCS: Hazard communication standard LC50: Half maximal lethal concentration LD50: Half maximal lethal dose OSHA: Occupational safety and health administration STOT SE: Specific target organ toxicity Single exposure STOT RE: Specific target organ toxicity Repeated exposure UN N°.: United Nations Number

#### Methods of evaluation for the classification of mixtures

The classification of the mixture was set based on the regulation (US) HCS 1910.1200 [HCS 2012].

#### **Other information**

This information is based on our present knowledge and is provided according to the relevant national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.