		Page : 1
	SAFETY DATA SHEET	Revised edition no : 3
	EU Regulation No. 1907/2006,	Date : 23 / 4 / 2013
	Annex II	Supersedes : 20 / 12 / 2010
Mulan 20 SP		R-20469
SECTION 1. Identification of	the substance/mixture and of the company/undertaking	ng
1.1. Product identifier		
Trade name	: Mulan 20 SP	
Chemical formula	: Acetamiprid : C10H11CIN4	
1.2. Relevant identified uses	s of the substance or mixture and uses advised agains	st
Relevant identified uses	: Insecticide	_
Uses advised against	: None under normal conditions.	
1.3. Details of the supplier of	of the safety data sheet	
	: ADAMA SOUTH AFRICA (PTY) LTD 21 Viben Street Brackenfell 7560	
Email	: msds@mcw.co.il	
1.4. Emergency telephone r	number	
	: +27 82 331 6463 +27 21 982 1460	
SECTION 2. Hazards identifi	cation	
2.1. Classification of the su	bstance or mixture	
Hazard classification		
Classification 67/548/EEC (DS	5D) - 1999/45/EC (DPD)	
	: Xn; R22	
	N; R51-53	
2.2. Label elements		
Labelling 1999/45/EC (DPD)		
Symbol(s)	*	
	: Xn : Harmful.	
R Phrase(s)	N : Dangerous for the environment. : R22 - Harmful if swallowed.	
N i inaso(3)	R51/53 - Toxic to aquatic organisms, may cause long-ten environment.	m adverse effects in the aquatic

S Phrase(s)

2.3. Other hazards

Other hazards

: None under normal conditions.

: S02 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S36/37 - Wear suitable protective clothing and gloves.

S60 - This material and its container must be disposed of as hazardous waste.S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

		Page : 2
	SAFETY DATA SHEET	Revised edition no : 3
	EU Regulation No. 1907/2006, Annex II	Date : 23 / 4 / 2013
		Supersedes : 20 / 12 / 2010
Mulan 20 SP		R-20469
SECTION 3. Composition/inf	formation on ingredients	•
Components	: This product is considered to be hazardous and contains	hazardous components
Substance name	Concentration % w/w CAS No EC No Index No	REACH Reg. Classification
Acetamiprid	: 20 % 135410-20-7 608-032-00-2	Xn; R22 R52-53
T (AAAAAAAAAAAAA		Acute Tox. 4 - H302 Aquatic Chronic 3 - H412
Text of R/H-Phrases - Sec. 1	6	
SECTION 4. First aid measure	res	
4.1. Description of first aid	measures	
First aid measures		
Inhalation	: Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. Immediately get	
Skin contact	 Remove affected clothing and wash all exposed skin area warm water rinse. Immediately get medical attention. 	
Eye contact	: In case of eye contact, immediately rinse with clean water consult an eye specialist.	
Ingestion	 Do not induce vomiting. Wash out mouth with plenty of wa to an unconscious person. Immediately get medical atter 	
4.2. Most important sympto	ms and effects, both acute and delayed	
4.3. Indication of any immed	diate medical attention and special treatment needed	
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.		
SECTION 5. Fire-fighting me	asures	
5.1. Extinguishing media		
Suitable extinguishing med	ia : foam , dry chemical , carbon dioxide . foam .	
Unsuitable extinguishing m		
	from the substance or mixture	
Specific hazards	: Thermal decomposition may generate : carbon monoxide , nitrogen oxides .	, carbon dioxide , hydrogen chloride
5.3. Advice for fire-fighters		
Protection against fire	: Wear suitable protective clothing. Self-contained breathing	6 11
Special procedures	: Move containers away from fire without risk . Fight fires fire control water for later disposal.	rom a protected location . Dike fire
SECTION 6. Accidental release measures		
	protective equipment and emergency procedures	
For emergency responders	: Use appropriate protection (see section 8).	
6.2. Environmental precauti Environmental precautions		special waste collection point. If the
	product has contaminated surface water, inform the appro	
	or containment and cleaning up	
Clean up methods	 Avoid generation of dust . Collect spilled material with she cover container loosely . During cleaning activity, shut off 	
6.4. Reference to other sections		

Page: 3 SAFETY DATA SHEET Revised edition no : 3 EU Regulation No. 1907/2006, Date: 23 / 4 / 2013 Annex II Supersedes : 20 / 12 / 2010 Mulan 20 SP R-20469 **SECTION 7. Handling and storage** 7.1. Precautions for safe handling Handling : Avoid generation of dust . Do not breathe dust. Avoid contact with skin and eyes. Avoid vigorous shaking of the bag when emptying the content . 7.2. Conditions for safe storage, including any incompatibilities Packing : Woven polypropylene big bags . Low density polyethylene open mouth bags . Low density polyethylene valve bags . : Keep locked up . Keep container tightly closed. Keep only in the original container in a cool, Storage well ventilated place. Keep container dry . Avoid : moisture , strong bases & acids , alkali , oxidizing substances 7.3. Specific end use(s) **SECTION 8. Exposure controls/personal protection** 8.1. Control parameters 8.2. Exposure controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and

	safety shower . Wash clothing before re-using. Wash hands thoroughly after handling.
 Respiratory protection 	: During spraying wear suitable respiratory equipment.
 Hand protection 	: Wear suitable gloves.
 Skin protection 	: Wear suitable protective clothing and chemical resistant boots .
Eye protection	: Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Solid - Powder
: white
: Odourless
: Not available
: Not available
: Acetamiprid : 98.9
: Not available
: Not applicable
: Not available
: Not flammable
: Not available
: Not available
: Not available
: 0.625 - 0.721 g/cm 3
: Not applicable
: Acetamiprid : KOW=0.80 (25 °C)
: Not available
: Not available
: Not available
: Not explosive
: Not available

		Page : 4
	SAFETY DATA SHEET	Revised edition no : 3
	EU Regulation No. 1907/2006,	Date : 23 / 4 / 2013
	Annex II	Supersedes : 20 / 12 / 2010
	Mulan 20 SP	R-20469
SECTION 9. Physical and c	chemical properties (continued)	
9.2. Other information		
Molecular weight	: Acetamiprid : 222.7	
SECTION 10. Stability and	reactivity	
10.1. Reactivity		
10.2. Chemical stability		
Chemical stability	: Stable under normal conditions.	
10.3. Possibility of hazardo	ous reactions	
Hazardous polymerization	n : Will not occur.	
10.4. Conditions to avoid		
Conditions to avoid	: Protect from sunlight , sources of heat , open flame ,	
10.5. Incompatible materia	<u>lls</u>	
Materials to avoid	: oxidizing agents, strong acids, strong bases.	
10.6. Hazardous decompo	sition products	
Hazardous decompositior	n products : Thermal decomposition may generate : carbon dioxide , , nitrogen oxides .	carbon monoxide ,hydrogen chloride

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
- Oral, Rat LD50 (mg/kg)	: 500
- Dermal, Rat LD50 [mg/kg]	: > 2000
- Inhalation, Rat LC50 [mg/l/4h]	: > 3.5 (Maximum concentration attainable Not adequate for classification.)
 Skin corrosion/irritation 	: Not irritant
 Serious eye damage/irritation 	: Not irritating
 Respiratory or skin sensitisation 	: Non sensitizer
 Germ cell mutagenicity 	: Not available
 Carcinogenicity 	: Not available
 Reproductive toxicity 	: Not available
 STOT-single exposure 	: Not available
 STOT-repeated exposure 	: Not available
 Aspiration hazard 	: Not available

SECTION 12. Ecological information

12.1. Toxicity

Acute toxicity

96 H-LC50 - Carp [mg/l]	: 263.9
48 H-EC50 - Daphnia magna [mg/l]	: >100
72 H-EC50 - Algae [mg/l]	: 123.73
LD50 Birds [mg/kg]	:154 -170 (quail)
Long-term exposure	

	SAFETY DATA SHEET EU Regulation No. 1907/2006, Annex II	Page : 5 Revised edition no : 3 Date : 23 / 4 / 2013 Supersedes : 20 / 12 / 2010
Mulan 20 SP		R-20469
SECTION 12. Ecological inforn	nation (continued)	
72 H-NOEC - Algae [mg/l]	: 10	
12.2. Persistence - degradabil	ity	
12.3. Bioaccumulative potenti	al	
12.4. Mobility in soil	_	
12.5. Results of PBT and vPvE	3 assassment	
	: Not available	
12.6. Other adverse effects		
	: None known.	
SECTION 13. Disposal conside	erations	
12.1 Wasto troatmost mothod		
13.1. Waste treatment method General	: Avoid release to the environment.	
General	Dispose in a safe manner in accordance with local/natio	nal regulations.
Disposal method	: Burn in a chemical incinerator equipped with an afterbur	ner and a scrubber.
SECTION 14. Transport inform	ation	
14.1. UN number		
UN N°	: 3077	
Hazard Label(s)	A	
	9	
14.2. UN proper shipping nam	•	
• Land transport - ADR/RID	E ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SO	
	(20% Acetamiprid)	ED, N.O.O.
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SO (20% Acetamiprid)	LID, N.O.S.
- H.I. no	: 90	
• Sea transport - IMO-IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SO	LID, N.O.S.
• Air transport - ICAO/IATA	 (20% Acetamiprid) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SO (20% Acetamiprid) 	LID, N.O.S.
14.3. Transport hazard class(e		
Land transport - ADR/RID	: 9	
• Sea transport - IMO-IMDG	: 9	
- IMO-IMDG - class or division		
• Air transport - ICAO/IATA	: 9	
14.4. Packing group		
Land transport - ADR/RID Packing group	: 111	
 Packing group Sea transport - IMO-IMDG 	: III	
• Air transport - ICAO/IATA	: III	
14.5. Environmental hazards		

SAFETY DATA SHEET EU Regulation No. 1907/2006, Annex II

Mulan 20 SP

SECTION 14. Transport information (continued)

14.6. Special precautions for user

: See transport documents.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.

SECTION 15. Regulatory information

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

15.2. Chemical Safety Assessment

: Not applicable

SECTION 16. Other information

List of relevant R phrases (heading 3)	: R22 - Harmful if swallowed. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
List of relevant H phrases (Section 3)	: H302 - Harmful if swallowed. H412 - Harmful to aquatic life with long lasting effects.
Print date	: 21 / 5 / 2014
Recommended uses and restrictions	: None.
information is provided without any warra	ation in this SDS was obtained from sources which we believe are reliable. However, the anty, express or implied, regarding its correctness. The conditions or methods of handling,

: Ensure all national/local regulations are observed.

storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

R-20469

Revised edition no : 3 Date: 23 / 4 / 2013

Supersedes : 20 / 12 / 2010

Page: 6