

ABAX 48 SC Metribuzin 480 g/L

Safety Data Sheet according to Regulation (EC) No. 453/2010

Date of issue: 26-09-2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Trade name : ABAX 48 SC Product code : FH-043 12 Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Use of the substance/preparation : Agriculture Herbicide 1.2.2 **Uses advised against** No additional information available 1.3. Details of the supplier of the safety data sheet Rotam Agrochemical Company Limited Unit 6, 26/F Trend Centre, 29 Cheung Lee Street, Chai Wan, Hong Kong Hong Kong T 00852 2896 0662 - F 00852 25586577 msds@rotam.com **Emergency telephone number** 1.4. Emergency number : (86) 532 8388 9090 SECTION 2: Hazards identification Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Full text of H-phrases: see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS09 Signal word (CLP) : Warning : Metribuzin (ISO); 4-amino-6-tert-butyl-3- methylthio-1,2,4-triazin-5(4H)- one; 4-amino-4,5-Hazardous ingredients dihydro-6-(1,1- dimethylethyl)-3-methylthio- 1,2,4-triazin-5-one Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (CLP) : P273 - Avoid release to the environment P391 - Collect spillage P501 - Dispose of contents/container to local regulations 23 **Other hazards**

Revision date:21-07-2015

No additional information available

SECTION 3: Composition/information on ingredients				
3.1.	Substances			
Not ap	Not applicable			

3.2. Mixtures

Name	Product identifier	g/L	Classification according to Directive 67/548/EEC
Metribuzin (ISO); 4-amino-6-tert-butyl-3- methylthio-1,2,4- triazin-5(4H)- one; 4-amino-4,5-dihydro-6-(1,1- dimethylethyl)- 3-methylthio- 1,2,4-triazin-5-one	(CAS No.) 21087-64-9 (EC no) 244-209-7 (EC index no) 606-034-00-8	480	Xn; R22 N; R50/53

Version: 2.1

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Name	Product identifier	Specific concentration limits		
Metribuzin (ISO); 4-amino-6-tert-butyl-3- methylthio-1,2,4-	(CAS No.) 21087-64-9	(0.25 =< C < 2.5	(2.5 =< C) N;R50/53	
triazin-5(4H)- one; 4-amino-4,5-dihydro-6-(1,1- dimethylethyl)-	(EC no) 244-209-7		(0.25 =< C < 2.5) N;R51/53	
3-methylthio- 1,2,4-triazin-5-one	(EC index no) 606-034-00-8		(0.025 =< C < 0.25) R52/53	
Name	Product identifier	g/L	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Metribuzin (ISO); 4-amino-6-tert-butyl-3- methylthio-1,2,4-	(CAS No.) 21087-64-9	480	Acute Tox. 4 (Oral), H302	
triazin-5(4H)- one; 4-amino-4,5-dihydro-6-(1,1- dimethylethyl)-	(EC no) 244-209-7		Aquatic Acute 1, H400 (M=10)	
3-methylthio- 1,2,4-triazin-5-one	(EC index no) 606-034-00-8		Aquatic Chronic 1, H410 (M=10)	

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: Call a physician or poison control center immediately.			
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area.			
First-aid measures after skin contact	: When symptoms occur: rinse immediately with plenty of water.			
First-aid measures after eye contact	Rinse eyes with plenty of water. Get medical attention if needed.			
First-aid measures after ingestion	: Rinse mouth and then drink plenty of water. DO NOT induce vomiting. Seek medical advice.			
-				
4.2. Most important symptoms and efference No additional information available	cts, both acute and delayed			
4.3. Indication of any immediate medica	I attention and special treatment needed			
Call a physician or poison control center immedi	ately.			
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).			
Unsuitable extinguishing media	: high volume water jet.			
5.2. Special hazards arising from the su Fire hazard	: Hazardous decomposition products may be released during prolonged heating like smokes,			
File hazalu	carbon monoxide and dioxide, nitrogen oxides (NOx).			
Explosion hazard	: Product is not explosive.			
Reactivity	: The product is stable at normal handling- and storage conditions.			
5.3. Advice for firefighters				
Precautionary measures fire	: Wear self-contained breathing apparatus and protective suit (see item 8).			
Firefighting instructions	: Prevent runoff from entering drains, sewers or waterways.			
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SECTION 6: Accidental release mea				
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters No additional information available

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Off-white.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: 5.4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.115
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidising properties	: Not oxidising
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
The prod	uct is stable at normal handling- and storage conditions.
10.2.	Chemical stability
Stable un	der normal conditions.
10.3.	Possibility of hazardous reactions
No additio	onal information available
10.4.	Conditions to avoid
All heat s	ources.
10.5.	Incompatible materials
Strong ac	ids, strong bases and oxidation agents.
10.6.	Hazardous decomposition products
No additio	onal information available
SECTIO	DN 11: Toxicological information
11.1.	Information on toxicological effects

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ABAX 48 SC (Metribuzin 480 g/L)		
LD50 oral rat	3045 mg/kg	
LD50 dermal rat	≥ 5050 mg/kg	
LC50 inhalation rat (mg/l)	≥ 2.1 mg/l/4h	
Skin corrosion/irritation	: Slightly irritating	
Serious eye damage/irritation	: Non-irritating	
Respiratory or skin sensitisation	: Not a sensitizer	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Metribuzin	
LC50 fish 1(96h)	74.6 mg/l (rainbow trout)
EC50 Daphnia 1(48h)	49.6 mg/l
ErC50 (algae)	0.021 mg/l (Scenedesmus subspicatus)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG / IC	ΑΟ / ΙΑΤΑ
14.1. UN number	
UN-No.	: 3082
14.2. UN proper shipping name	
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metribuzin)
Transport document description	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Metribuzin), 9, III, (E)
14.3. Transport hazard class(es)	
- (-)	9
Hazard labels (UN)	: 9
14.4. Packing group	
	: III

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14.5.	Environmental hazards	
Danger	ous for the environment	\wedge

Dangerous for the environment



Other information

: No supplementary information available.

Special precautions for user 14.6.

14.6.1. **Overland transport**

Hazard identification number (Kemler No.) Classification code (UN) Orange plates

90
M6
90
3082
274, 335, 601

:

:

:

3

5L

: E1

: •3Z

: E

Special provision (ADR) Transport category (ADR) Tunnel restriction code Limited quantities (ADR) Excepted quantities (ADR) EAC code

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

Chemical safety assessment 15.2.

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R22	Harmful if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ν	Dangerous for the environment
Xn	Harmful

SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam Agrochemical Co., Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.