


Safety Data Sheet
METOMINOSTROBIN 20% SC

Version : 2.2 E

Date / Revised : July 11, 2017

Conforming generally to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Fourth Revised Edition

1. Substance/Preparation and Company Identification

Product name:	METOMINOSTROBIN 20% SC
Product code:	SAIMSB-20SC
Manufacturer/supplier:	SUMMIT AGRO INTERNATIONAL LTD
Address:	8-12 Harumi 1-chome, Chuo-ku, Tokyo 104-6223 Japan Harumi Triton Square Office Tower Z
Department in charge:	Product Promotion Dept.
For More Information Call:	+81-3-6221-3265 / Fax +81-3-6221-3035
Recommended Use and Limitation of Use:	Fungicide for agricultural and horticultural uses

2. Hazards Identification

GHS Classification:	Category
Flammable liquids	not classified
Pyrophoric liquids	not classified
Acute toxicity – oral	4
Acute toxicity – dermal	5
Acute toxicity – inhalation - vapour	not classified
Acute toxicity – inhalation – mist	not classified
Skin corrosion/irritation	not classified
Serious eye damage/irritation	2B
Respiratory sensitization	not classified
Skin sensitization	not classified
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
Hazardous to aquatic environment (acute)	3
Hazardous to aquatic environment (chronic)	3

GHS label elements:

Symbols



Signal word

Warning

Hazard statement

- Causes eye irritation
- Harmful to aquatic life
- Harmful to aquatic life with long lasting effects

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Precaution statements

Prevention measures	<ul style="list-style-type: none"> Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. -if this is not the intended use.
Response precaution	<p>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <ul style="list-style-type: none"> Rinse mouth. If eye irritation persists: Get medical advice/attention.
Storage precaution	None
Disposal precaution	Dispose contents/containers to a waste disposal site or incineration plant in accordance with local/regional/national/international regulations.
Special precaution	None

3. Composition / Information on Ingredient

Identification of Substance or Mixture	Mixture
Chemical name or Generic name	Metominostrobin Suspension concentrate, a fungicide

Chemical Name /Generic Name	Content (w/v)	Chemical Formula	Japanese Gazettes Notice Number		CAS Number
			JCSCL	ISHA	
Metominostrobin	19.0 – 21.0 %	C ₁₆ H ₁₆ N ₂ O ₃	Not applicable	4-(14)-271	133408-50-1
Water, Others	79.0 – 81.0 %	-	-	-	-

4. First-Aids Measures

Skin Contact	<ul style="list-style-type: none"> Call a POISON CENTER or doctor/physician if you feel unwell.
Eye Contact	<ul style="list-style-type: none"> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	<ul style="list-style-type: none"> Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire Fighting Measures

Suitable extinguishing media	<ul style="list-style-type: none"> Dry chemicals, CO₂, fog, alcohol-resistant foam or sand. Use extinguishing agent suitable for type of surrounding fire. Non-combustible, substance itself does not burn.
Extinguishing Media which should not be used for safety reasons	<ul style="list-style-type: none"> High volume water jet
Unsuitable Extinguishing Media Specific Hazards	<ul style="list-style-type: none"> Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases.
Specific Fire Fighting	<ul style="list-style-type: none"> Move containers from fire area if you can do it without risk.

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| Protection of Fire Fighter | <ul style="list-style-type: none"> • Use extinguishing agent suitable for type of surrounding fire. • Cool containers with flooding quantities of water until well after fire is out. |
| Further information | <ul style="list-style-type: none"> • In fire fighting, wear respiratory protection and chemical protective clothing. • Contain the spread of the fire-fighting media. • Do not allow run-off from fire fighting to enter drains or water courses. |

6. Accidental Release Measures

- | | |
|--|---|
| Personal Precautions, Protective Equipment and Emergency Procedures | <ul style="list-style-type: none"> • Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS /PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin. • Isolate the site as a leak area by providing a zone that has an appropriate width to all directions. • Keep unauthorized personnel away. • Stay upwind. • Keep out of low areas. |
| Environmental Precautions | <ul style="list-style-type: none"> • Pay attention not to cause the influence on the environment by discharging into rivers. • Do not release into the environment. |
| Decontamination / Absorption / Sweeping / Vacuuming / Neutralization | <ul style="list-style-type: none"> • Small spills; absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for later disposal. |
| Methods and Equipment for Containment and Cleaning up | <ul style="list-style-type: none"> • Stop leak if you can do it without risk. |
| Prevention Measures for Secondary Accidents | <ul style="list-style-type: none"> • Prevent entry into waterways, sewers, basements or confined areas. |
| Additional advice | <ul style="list-style-type: none"> • For safe handling, see section 7. • For Personal Protective Equipment (PPE), see section 8. • For waste disposal, see section 13. |

7. Handling and Storage

Handling:

- | | |
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| Technical Measures | <ul style="list-style-type: none"> • Provide ventilation system and use necessary personal protective equipment as described in "Section 8 - EXPOSURE CONTROLS /PERSONAL PROTECTION". |
| Advice on safe handling | <ul style="list-style-type: none"> • Do not contact with skin. • Avoid contact with eyes. • Avoid swallowing • Wash hand thoroughly after handling. • Avoid release to the environment. |
| Advice on protection against fire and explosion | <ul style="list-style-type: none"> • Avoid contact with heat materials. |

Storage :

- | | |
|-------------------------|--|
| Technical Measures | <ul style="list-style-type: none"> • The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. |
| Incompatible Substances | <ul style="list-style-type: none"> • None |

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Keeping condition	<ul style="list-style-type: none"> • Store away from oxidants.
Requirements for storage areas and containers	<ul style="list-style-type: none"> • Store in original container. • Keep containers tightly closed in a dry, cool and well-ventilated place.
Advice on common storage	<ul style="list-style-type: none"> • Keep away from food, drink and animal feeding stuffs.

8. Exposure Controls / Personal Protection

	Standard Control Concentration (ppm)	Allowable concentration(ppm) (Exposure Limit, Biological Exposure Indices)	
		J Soc of Indust Hygienic (2009)	ACGIH (2010)
Metominostrobin	N/A	N/A	N/A
Water, Other	N/A	N/A	N/A

ACGIH: American Conference of Governmental Industrial Hygienists

Personal Protective Equipment (PPE)

Respiratory Protection	<ul style="list-style-type: none"> • If ventilation is insufficient, wear an adequate protective apparatus for respiratory organs.
Hand Protection	<ul style="list-style-type: none"> • Wear protective gloves.
Eye Protection	<ul style="list-style-type: none"> • Wear eye protection. • Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
Skin and Body Protection	<ul style="list-style-type: none"> • Wear suitable protective clothing.
Specific Hygiene Measures	<ul style="list-style-type: none"> • Wash hand thoroughly after handling.

9. Physical and Chemical Properties

Externals	
Appearance	Liquid
Physical State	Viscous, aqueous suspension, free from lump
Colour	Light brown
Odour	Characteristic odour
Odour threshold	No data available.
pH	6.5 – 8.5 (25°C)
Melting Point/Freezing Point	No data available.
Initial Boiling Point and Boiling Ranges	No data available.
Flash Point	Not flammable for heating up to 97°C.
Flammability	No data available.
Explosive properties	No data available.
Vapour Pressure	No data available.
Henry's law constant	No data available.
Specific Gravity (Density)	1.06 – 1.08 g/cm ³ (20°C)
Miscibility (30°C)	Fully miscible in water/solvent
Partition Coefficient : n-Octanol/Water	No data of the mixture.
Corrosive to metals (7 days, 24.5 ° C)	No corrosion of aluminium, copper, iron, brass
Auto-Ignition Temperature	No data available.
Decomposition Temperature	Experienced no change (14 days, 55 ° C).
Evaporation Rate (Butylacetate = 1)	No data available

10. Stability and Reactivity

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Stability	Stable for 14 days at 55 ° C
Possibility of hazardous reaction	
Conditions to avoid	High temperatures.
Incompatible materials	No data available.
Hazardous decomposition products	Toxic fumes may be evolved if involved in a fire.

11. Toxicological Information

Acute toxicity	oral LD ₅₀ in rat	300 - 2000 mg/kg bw
	dermal LD ₅₀ in rat	> 4000 mg/kg bw
	Inhalation LC ₅₀ (4hr) in rat	> 3.95 mg/L
Skin corrosion/irritation		No irritant/corrosive effects.
Serious eye damage/eye irritation		Causes eye irritation, which are reversible.
Respiratory sensitization		No data of the mixture.
Skin sensitization		Non-sensitizing (guinea pig)
Aspiration hazard		No data of the mixture.
Germ cell mutagenicity		No data of the mixture.
Carcinogenicity		No data of the mixture.
Reproductive toxicity		No data of the mixture.
Specific target organ toxicity (single exposure)		No data of the mixture.
Specific target organ toxicity (repeated exposure)		No data of the mixture.

12. Ecological Information

Hazardous to the aquatic environment Acute toxicity	GHS Classification not possible
	<ul style="list-style-type: none"> Zebra fish (<i>Danio rerio</i>) - 96 hr LC₅₀: > 100.0 mg/L
	Harmful to aquatic life – GHS Category 3
	<ul style="list-style-type: none"> Young water flea (<i>Daphnia similis</i>) - 48 hr EC₅₀ 20.31 mg/L Fresh water green algae (<i>Pseudokirchneriella subcapitata</i>) - 0-72 hr: ErC₅₀: 15.94 mg/L
Hazardous to the aquatic environment Chronic toxicity	Harmful to aquatic life with long lasting effects – GHS Category 3
Other environment toxicity	<ul style="list-style-type: none"> Honey bee (<i>Apis mellifera</i>) – 72hr Contact LD₅₀: >100.0 µg/bee Earthworm (<i>Eisenia foetida</i>) – 14 days LC₅₀: 179.87 mg/kg for soil Japanese quail (<i>Coturnix coturnix japonica</i>) – 14 days LD₅₀: >2000.0 mg/kg bw Soil microorganisms – No long term effect on carbon transformation process by soil microorganisms (on 42 days after application)
Persistence and degradability	No data available.
Bioaccumulative potential	Probably no bioaccumulative potential because of low level of bioaccumulation

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potential of Metominostrobin technical grade..

Mobility in soil

Mobility to the hydrosphere is low.

13. Disposal Considerations

Disposal of product

In accordance with current regulations, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Disposal of packaging

Not completely emptied packaging should be disposed of as hazardous waste. Uncleaned empty packaging should be packaged and sealed, labelled and transferred to a suitable incinerator in accordance with the local and national regulations.

14. Transportation Information

International regulation

Regulatory Information by Sea

Not hazardous.

Regulatory Information by Air

Not hazardous.

Regulation in Japan

Regulatory Information by Road

Not hazardous.

Regulatory Information by Sea

Not hazardous.

Regulatory Information by Air

Not hazardous.

Other information

Avoid rough handling or wet packaging, container to prevent damage.

Emergency Response Guide Number

None

15. Regulatory Information

Industrial Safety and Health Act

- Notification No. 4-(14)-271/ Metominostrobin

16. Other Information

Technical Contact

Summit Agro International LTD.

Reference literature

GHS Classification Information (NITE)

EU CLP Regulation

GHS-(M)SDS (CHEMWATCH)

RTECS(2006-2009)

(M)SDS by Summit Agro International LTD.

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