



Safety Data Sheet

RHAPSODY® ASO

SDS Number: 102000027846

SDS Version 1.0

Revision Date: 03/26/2015

Print Date: 12/13/2016

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	RHAPSODY® ASO
SDS Number	102000027846
Product code (UVP)	80924771
PCP Registration No.	28627
Product Use	Fungicide

Bayer CropScience Inc
#200, 160 Quarry Park Blvd, SE
Calgary, Alberta T2C 3G3
Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview May cause sensitization by skin contact. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.

Physical State	suspension
Odor	sweet earthy
Appearance	brown
Exposure routes	Inhalation, Eye contact, Skin contact
Immediate Effects	
Eye	May cause mild irritation to eyes.
Skin	May cause sensitisation by skin contact. May cause mild irritation to the skin.
Inhalation	May be harmful if inhaled.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Bacillus subtilis, strain QST 713		1.34

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician	
Signs and Symptoms	No symptoms known or expected.
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	no data available
Autoignition temperature	no data available
Lower Flammability Limit	no data available
Upper Flammability Limit	no data available
Explosiveness	not applicable



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Fire and Explosion Hazards	Dangerous gases are evolved in the event of a fire.
Suitable extinguishing media	Water spray, Foam, Dry chemical, Carbon dioxide (CO ₂)
Unsuitable extinguishing media	High volume water jet
Fire Fighting Instructions	<p>Use appropriate extinguishing media for material that is supplying fuel.</p> <p>Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling procedures	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.
Storing Procedures	Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place.
Work/Hygienic Procedures	<p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p> <p>Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.</p>

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
Eye/Face Protection	Safety glasses with side-shields
Hand protection	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection	Respiratory protection is not required under anticipated circumstances of exposure. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown
Physical State	suspension
Odor	sweet earthy
pH	5.2 - 5.4
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	ca. 1.050 g/cm ³ at 20 °C
Evaporation rate	no data available
Boiling Point	>= 100 °C / 212 °F
Melting / Freezing Point	no data available
Water solubility	dispersible
Minimum Ignition Energy	not applicable



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Decomposition temperature	no data available
Partition coefficient: n-octanol/water	not applicable
Viscosity	10 - 100 mPa.s
Other information	Further safety related physical-chemical data are not known.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing Extremes of temperature and direct sunlight.
Incompatibility	no data available
Hazardous Decomposition Products	No decomposition products expected under normal conditions of use.
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	rat: LD50: > 5,000 mg/kg Test conducted with a similar formulation.
Acute dermal toxicity	rabbit: LD50: > 2,000 mg/kg
Acute inhalation toxicity	rat: LC50: > 1.45 mg/l Test conducted with a similar formulation. Determined in the form of liquid aerosol. Highest attainable concentration. No deaths
Skin irritation	rabbit: No skin irritation
Eye irritation	rabbit: No eye irritation
Sensitisation	guinea pig: Non-sensitizing. Test conducted with a similar formulation.
Chronic toxicity	Bacillus subtilis did not cause specific target organ toxicity in experimental animal studies.
Assessment carcinogenicity	Bacillus subtilis: Test not required for microorganisms.



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ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Reproductive toxicity Bacillus subtilis: Test not required for microorganisms.

Developmental Toxicity Bacillus subtilis: Test not required for microorganisms.

Mutagenicity Bacillus subtilis: Test not required for microorganisms.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish Oncorhynchus mykiss (rainbow trout)
LC50: 162 mg/l 3.24 x 10⁹ CFU/L
Exposure time: 30 d
The value mentioned relates to the active ingredient.

Oncorhynchus mykiss (rainbow trout)
NOEC: 86 mg/l 1.72 x 10⁹ CFU/L
Exposure time: 30 d
The value mentioned relates to the active ingredient.

Toxicity to aquatic plants Scenedesmus subspicatus
NOEC: >= 100 mg/l
The value mentioned relates to the active ingredient.

Scenedesmus subspicatus
LOEC: > 100 mg/l
The value mentioned relates to the active ingredient.

Acute Toxicity to Aquatic Invertebrates Daphnia magna (Water flea)
EC50: 108 mg/l 2.16 x 10⁹ CFU/L
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Daphnia magna (Water flea)
NOEC: 13 mg/l 2.6 x 10⁸ CFU/L
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Daphnia magna (Water flea)
EC50: 1.6 x 10⁶ CFU/mL
Exposure time: 21 d



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The value mentioned relates to the active ingredient.

Daphnia magna (Water flea)

NOEC: 7.9×10^5 CFU/mL

Exposure time: 21 d

The value mentioned relates to the active ingredient.

Environmental precautions

Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 28627

US Federal Regulations

TSCA list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive



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US State Right-To-Know Ingredients

None.

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Safety Data Sheet.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

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