



Material Safety Data Sheet

ROYAL MH® 60 SG

Version: 1.3

Revision Date: 07/03/2013

Print Date: 07/04/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYAL MH® 60 SG
Product Use Description: Plant growth regulator
Registration number: PCP# 18143
Company: Chemtura Canada Co./Cie
25 ERB STREET
Elmira, Ontario
N3B 3A3
Canada
Telephone: (US) +1 866-430-2775

Emergency telephone number: :
: 866-744-3060
CANUTEC: (24 hours) 613-996-6666 (call collect)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: granular Colour: light brown Odour: odourless

Hazard Summary : May be harmful if absorbed through skin.
Causes eye irritation.
May cause skin irritation.

WHMIS Classification : : This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

Potential Health Effects

Primary Routes of Entry : Skin contact
Eye contact
Inhalation



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Aggravated Medical Condition : None known.
Inhalation : No adverse effects are expected under normal conditions of use.
Skin : May irritate skin.
Eyes : Irritating to eyes.
Ingestion : May cause:
Gastrointestinal irritation
Symptoms of Overexposure : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
pyridazine-3,6-diol 123-33-1	60 %
Alcohols, C11-14-iso-, C13-rich, ethoxylated 78330-21-9	< 15 %
potassium hydroxide 1310-58-3	< 2 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.
If symptoms persist, call a physician.
Skin contact : Wash off with warm water and soap.
If symptoms persist, call a physician.
Wash clothing before reuse.
Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
If symptoms persist, call a physician.
Ingestion : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.
Never give anything by mouth to an unconscious person.

Notes to physician

Symptoms : No information available.
Risks : No information available.



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Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : ≥ 212 °F (≥ 100 °C)

Fire fighting

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
Water mist

Unsuitable extinguishing media : Water spray

Further information : Use water spray to cool unopened containers.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective equipment.

Environmental precautions : Do not allow material to contaminate ground water system.
Do not allow uncontrolled discharge of product into the environment.

Methods for containment / Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Handle and open container with care.
Use only with adequate ventilation.
Avoid dust formation.
Do not get in eyes or mouth or on skin.
Wear suitable protective clothing, gloves and eye/face protection.
Wash thoroughly after handling.
Keep container closed when not in use.



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Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container.

Other data : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
potassium hydroxide 1310-58-3	(c) CA AB OEL 2009-04-30	2 mg/m ³	
	C CA BC OEL 2006-11-29	2 mg/m ³	
	CEV CA ON OEL 2005-12-17	2 mg/m ³	
	C CA QC OEL 2006-12-29	2 mg/m ³	

Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Chemical resistant protective gloves

Skin and body protection : Long sleeved clothing
Remove and wash contaminated clothing before re-use.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.



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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Wear suitable gloves and eye/face protection.
When using do not eat, drink or smoke.
Wash thoroughly after handling.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granular
Colour : light brown
Odour : odourless

Safety data

Flash point : ≥ 212 °F (≥ 100 °C)
pH : 8 - 12
Note: 2% solution
Melting point/range : ca. 579 °F (304 °C)
Vapour pressure : no data available
Density : 0.8 g/cm³
Water solubility : Note: soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Extremes of temperature and direct sunlight.
Materials to avoid : Remarks: Strong acids and strong bases
Oxidizing agents
Hazardous decomposition products : Note: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Hazardous reactions : No dangerous reaction known under conditions of normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 7,500 mg/kg
Species: rat



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Acute inhalation toxicity	: LC50: > 5 mg/l Exposure time: 4 h Species: rat
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: rabbit
Skin irritation	: Species: rabbit Result: No skin irritation
	: Species: rabbit Result: slight irritation
Eye irritation	: Species: rabbit Result: No eye irritation
	: Species: rabbit Result: Moderate eye irritation
Sensitisation	: Species: guinea pig Remarks: Non sensitizing.

Toxicology Assessment

CMR effects	: Carcinogenicity: negative Mutagenicity: negative Reproductive toxicity: negative
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12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	: Remarks: No data is available on the product itself.
Toxicity to daphnia and other aquatic invertebrates	: Remarks: No data is available on the product itself.
Toxicity to algae	: Remarks: No data is available on the product itself.
Toxicity to fish (Chronic toxicity)	



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pyridazine-3,6-diol : NOEC: 100 mg/l
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
pyridazine-3,6-diol : NOEC: > 5.6 mg/l
Exposure time: 7 d
Species: Daphnia

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
no data available

Mobility : Remarks:
no data available

Biodegradability : Remarks:
no data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Waste must be classified and labelled prior to recycling or disposal.
Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID



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Not dangerous goods

SECTION 15. REGULATORY INFORMATION

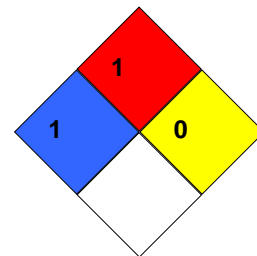
WHMIS Classification :

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1
Flammability: 1
Reactivity: 0

NFPA Classification : Health hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763



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