	Material Safety Data Sheet							
	Chemitura							
R	OYAL MH-30® SG							
Ver	rsion: 1.3	Revision Date: 07/27/2010 Print Dat	te: 10/24/2012					
SEC	TION 1. PRODUCT AND C	OMPANY IDENTIFICATION						
	Product name:	ROYAL MH-30® SG						
	Product Use Description:	Plant growth regulator						
	Company:	Chemtura Corporation 199 Benson Road Middlebury, CT 06749 United States of America Telephone: 866-430-2775						
	Emergency telephone:	CHEMTREC: (24 hours) 800-424-9300 : Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898						
		For additional emergency telephone numbers see section 16 of the Safety Data She	eet.					
	Prepared by:	Product Safety Department (US) +1 866-430-2775 +011-886-2-2712-5668 MSDSRequest@chemtura.com						
SEC	CTION 2. HAZARDS IDENTI Emergency Overview CAUTION!							
	<u>Form</u> : granular	Colour: light brown Odour: odourless						
	Hazard Summary	: May be harmful if absorbed through skin. Causes eye irritation. May cause skin irritation.						
SAP 6	6.0	1 / 9 SDS Number: 40000003984						



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OSHA Hazards	: THIS MATERIAL IS HA THE FEDERAL OSHA 29CFR 1910.1200.		
Potential Health Effects			
Primary Routes of Entry	: Skin contact Eye contact Inhalation		
Aggravated Medical Condition	: None known.		
Inhalation	: No adverse effects are expe	cted under normal condition	s of use.
Skin	: May irritate skin.		
Eyes	: Irritating to eyes.		
Ingestion	: May cause: Gastrointestinal irritation		
TION 3. COMPOSITION/INI	FORMATION 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 %
	y identified are non-hazardou	is and/or proprietary	ł

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.	
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Eye contact	: Rinse thoroughly with plenty of water, also un If symptoms persist, call a physician.	der the eyelids.
Ingestion	: Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention. Never give anything by mouth to an unconscient	ous person.
TION 5. FIRE-FIGHTING ME	SURES	
Flammable properties		
Flash point	: 199 °F (93 °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 contami water system.	
Protective equipment and p	ecautions for firefighters	
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breath Full protective flameproof clothing	ning apparatus.
TION 6. ACCIDENTAL RELE	ASE MEASURES	
Personal precautions	: Wear suitable protective equipment.	
Environmental precautions	: Do not allow material to contaminate ground with Do not allow uncontrolled discharge of product	
Methods for containment / Methods for cleaning up	: Sweep up and shovel into suitable containers	for disposal.
TION 7. HANDLING AND ST	DRAGE	
Handling		
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Handling procedures	<ul> <li>Handle and open container with care.</li> <li>Use only with adequate ventilation.</li> <li>Avoid dust formation.</li> <li>Do not get in eyes or mouth or on skin.</li> <li>Wear suitable protective clothing, gloves and eye/face pr</li> <li>Wash thoroughly after handling.</li> <li>Keep container closed when not in use.</li> </ul>	rotection.	
Storage			
Requirements for storage areas and containers	: Keep containers tightly closed in a dry, cool and well-ver Keep only in the original container.	ntilated place.	
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 ACGIH 2007-01-01	2 mg/m3	
	C OSHA P0 1989-01-19	2 mg/m3	

Engineering measures		
Engineering measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protective equipn	nent	
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. 4/9



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EISIUII. I.S				
Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.				
Hygiene measures	: Handle in accordance with good industrial hygier 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			
ECTION 9. PHYSICAL AND CH	IEMICAL PROPERTIES			
Appearance	, gropular			
Form Colour	: granular : light brown			
Odour	: odourless			
Safety data				
Flash point	: 199 °F (93 °C)			
рН	: 7.8 - 11			
Melting point/range	: Note: no data available			
Density	: 1.6 g/cm3			
Water solubility	: Note: soluble			
ECTION 10. STABILITY AND F	REACTIVITY			
Conditions to avoid	: Remarks: Extremes of temperature and direct su	unlight.		
Materials to avoid	: Remarks: Strong acids and strong bases Oxidizing agents			
Hazardous decomposition products	: Note: Carbon monoxide, carbon dioxide and unb (smoke).	ourned hydrocarbons		
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TION 11. TOXICOLOGICA	L INFORMATION	
Acute oral toxicity pyridazine-3,6-diol	: LD50: > 5,000 mg/kg Species: rat	
potassium hydroxide	: LD50 Oral: 273 mg/kg Species: rat	
Acute inhalation toxicity pyridazine-3,6-diol	: LC50: > 3.2 mg/l Exposure time: 4 h Species: rat	
Acute dermal toxicity pyridazine-3,6-diol	: LD50: > 5,000 mg/kg Species: rabbit	
Skin irritation pyridazine-3,6-diol	: Species: rabbit Result: No skin irritation	
Eye irritation pyridazine-3,6-diol	: Species: rabbit Result: No eye irritation	
Sensitisation pyridazine-3,6-diol	: Buehler Test Species: guinea pig Result: Did not cause sensitiz Method: OECD Test Guideline	
CMR effects pyridazine-3,6-diol		
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Toxicity to fish pyridazine-3,6-diol	<ul> <li>LC50: 1,434.8 mg/l Exposure time: 96 h</li> <li>Species: Oncorhynchus mykiss (rainbow trout) static test</li> </ul>				
Toxicity to daphnia and other a pyridazine-3,6-diol	aquatic invertebrates. : LC50: 107.5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test				
Toxicity to algae pyridazine-3,6-diol	: EC50: > 100 mg/l Exposure time: 96 h Species: Chlorella vulgaris (Fresh water algae)				
Toxicity to daphnia and other a pyridazine-3,6-diol	aquatic invertebrates. (Chronic toxicity) : NOEC: > 5.6 mg/l Exposure time: 7 d Species: Daphnia				
Further information on ecolo	ogy				
SECTION 13. DISPOSAL CONSID	PERATIONS				
Further information	<ul> <li>Dispose of waste material in compliance with all federal, so local regulations.</li> <li>Waste must be classified and labelled prior to recycling or disposal.</li> <li>Do not contaminate ponds, waterways or ditches with che used container.</li> </ul>	r			
SECTION 14. TRANSPORT INFO	RMATION				
<u>DOT</u> Not dangerous goods					
<u>TDG</u> Not dangerous goods					
<u>IATA</u> Not dangerous goods					
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#### IMDG

Not dangerous goods

#### RID

Not dangerous goods

#### SECTION 15. REGULATORY INFORMATION

OSHA Hazards	: This material is hazardous under the criteria of the Federal OSHA Hazard
	Communication Standard 29CFR 1910.1200.

SARA 311/312 Hazards : Acute Health Hazard

The components of this product are reported in the following inventories: REACH

TSCA

All substances in this product are exempt from TSCA as this product is registered under FIFRA (Federal Insecticide Fungicide Rodanticide Act). Note: EPA Registered Pesticide

DSL

Note: 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.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SAP 6.0

# Material Safety Data Sheet ROYAL MH-30® SG Version: 1.3 Revision Date: 07/27/2010 Print Date: 10/24/2012 HMIS Classification : Health hazard: 1 Flammability: 1 Reactivity: 0 Print Date: 10/24/2012 NFPA Classification : Health hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0 Image: 10/24/2012

#### Other Emergency Phone Number

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+52 555 004 87 63

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