



Issue Date 17-Apr-2014

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Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier			
Product Name	Magnum		
Other means of identification			
Product Code	9234		
UN/ID No.	2817		
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended Use	Chrome and Wheel Cleaner and Brightener.		
Uses advised against	No information available		
Details of the supplier of the safety data sheet			

Manufacturer Address Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone number

Company Phone Number	1-404-761-0657
24 Hour Emergency Phone Number	800-424-9300
Emergency Telephone	Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

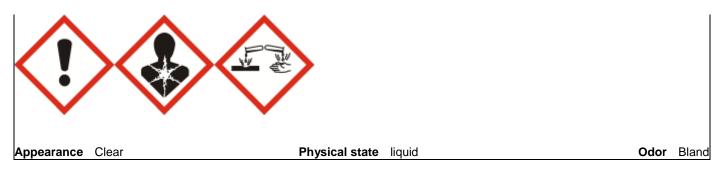
Label elements

Emergency Overview

Danger

Hazard statements

Harmful if inhaled Causes severe skin burns and eye damage May cause cancer



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

May be harmful if swallowed

· Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Phosphoric Acid	7664-38-2	<25	*
Ammonium Bifluoride	1341-49-7	<5	*
Sodium Nitrate	7631-99-4	<3	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice

Severe irritant to eyes. Irritation and/or difficulty in breathing if inhaled. Gastric pain and vomiting if ingested.

Eye contact	For eye contact, immediately flush with clear running water for 15 minutes. Get medical attention.		
Skin Contact	Rinse skin with clear water.		
Inhalation	Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get medical attention. If breathing does not return to normal, seek medical attention.		
Ingestion	Immediately drink large quantities of water. Get medical attention. Do not induce vomiting.		
Most important symptoms and effects, both acute and delayed			
Symptoms	No information available.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Do not enter confined fire space without proper protective equipment including a NIOSH approved self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.		
Environmental precautions			
Environmental precautions	See Section 12 for additional ecological information.		
Methods and material for containment and cleaning up			
Methods for containment	Keep container closed when not in use. Keep out of reach of children. Do not freeze. Follow label instructions.		
Methods for cleaning up	PH adjust and dispose in accordance with federal, state and local regulations.		
7. HANDLING AND STORAGE			

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Strong acids. OXIDIZERS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid	STEL: 3 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³
7664-38-2	TWA: 1 mg/m ³	(vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³
		(vacated) STEL: 3 mg/m ³	STEL: 3 mg/m ³
Ammonium Bifluoride	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F
1341-49-7	-	TWA: 2.5 mg/m ³ dust	-
		(vacated) TWA: 2.5 mg/m ³	

Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Drenching safety shower and eye wash station.
Skin and body protection	Wear Neoprene or protective rubber gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid Clear No information available	Odor Odor threshold	Bland No information available
Property pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit:	<u>Values</u> 1.5 No information available 100 >212°F No information available <1 No information available No information available	<u>Remarks • Method</u>	

Vapor pressure Vapor density
Specific Gravity
Water solubility
Solubility in other solvents Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity Dynamic viscosity
Explosive properties
Oxidizing properties

Other Information

Softening point Molecular weight VOC Content (%) Density Bulk density No information available 1.10 completely soluble No information available No information available

No information available

No information available No information available No information available 9.16 No information available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability

Stable.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong acids. OXIDIZERS.

Hazardous Decomposition Products

Phosphorous Oxidizers. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	Irritation and difficulty in breathing.
Eye contact	Severely irritating to eyes.
Skin Contact	Irritating to skin.
Ingestion	Gastric pain and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat)1 h

Ammonium Bifluoride 1341-49-7	= 130 mg/kg (Rat)	-	-
Sodium Nitrate	= 1267 mg/kg (Rat)	-	-
7631-99-4			

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No informatic No informatic No informatic	on available.		
Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium Bifluoride 1341-49-7	-	Group 3	-	-
Sodium Nitrate 7631-99-4	-	Group 2A	-	Х
Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	No information No informati No information No information No information No infor	No information available. No information available. No information available. No information available.		

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

5.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosphoric Acid	-	3 - 3.5: 96 h Gambusia affinis mg/L	4.6: 12 h Daphnia magna mg/L
7664-38-2		LC50	EC50
Sodium Nitrate	-	994.4 - 1107: 96 h Oncorhynchus	-
7631-99-4		mykiss mg/L LC50 static 2000: 96 h	
		Lepomis macrochirus mg/L LC50	
		static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Sodium Nitrate	-3.8
7631-99-4	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Chemical Name	California Hazardous Waste Status	
Phosphoric Acid	Corrosive	
7664-38-2		
Sodium Nitrate	Toxic	
7631-99-4	Ignitable	
	Reactive	

14. TRANSPORT INFORMATION

DOT

UN/ID No. Proper shipping name Hazard Class Packing Group

Regulated 2817 Ammonium Hydrogen Fluoride Solution 8 II

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Ammonium Bifluoride - 1341-49-7	1.0	
Sodium Nitrate - 7631-99-4	1.0	
SARA 311/312 Hazard Categories		

Acute health hazard

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric Acid 7664-38-2	5000 lb	-	-	Х
Ammonium Bifluoride 1341-49-7	100 lb	-	-	Х

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric Acid	5000 lb	-	RQ 5000 lb final RQ
7664-38-2			RQ 2270 kg final RQ
Ammonium Bifluoride	100 lb	-	RQ 100 lb final RQ
1341-49-7			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2	Х	X	Х
Ammonium Bifluoride 1341-49-7	Х	X	Х
Sodium Nitrate 7631-99-4	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION								
<u>NFPA</u>	Health hazards	0	Flammability	0	Instability 0	Physical and Chemical Properties -		
HMIS	Health hazards	2	Flammability	0	Physical hazards 1	Personal protection X		
Prepared By Issue Date	Moira Blackflower 17-Apr-2014							
Revision Date Revision Note		Apr-20						
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End of Safety Data Sheet