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	Safety Data Sheet According to U.S.A. Federal Hazcom 2012	
1. Identification		
<b>1.1. Product identifier</b> Code: Product name	MS68B 68 Element Standard - Part B - 12 Elements in 2% HNO	s / tr HF
1.2. Relevant identified uses of the substance or n Intended use For laboratory use of		
1.3. Details of the supplier of the safety data sheet		
Name	EXAXOL CHEMICAL CORPORATION	
Full address District and Country	14325 60 TH ST N 33760 CLEARWATER - FLORIDA	
	Tel. 1-727-524-7732	
a secoli a dela seco	Fax 1-727-532-8221	
e-mail address	info@exaxol.com	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	1-800-255-3924 ChemTel Inc.	
2. Hazards identification		
2.1. Classification of the substance or mixture		

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Hazard pictograms: Acute toxicity, category 3 Acute toxicity, category 4 Eye irritation, category 2 Skin irritation, category 2

Toxic in contact with skin. Harmful if swallowed. Causes serious eye irritation. Causes skin irritation.

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305		
Signal words:	Danger	
azard statements:		
H311 H302	Toxic in contact with skin. Harmful if swallowed.	
H319 H315	Causes serious eye irritation. Causes skin irritation.	
recautionary statements:		
Prevention:		
P280 P270	Wear protective gloves/ protective clothing / eye protection / face protection. Do not eat, drink or smoke when using this product.	
P264	Wash skin thoroughly after handling.	
esponse:		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i rinsing.	f present and easy to do. Continue
P312	Call a POISON CENTER / doctor / / if you feel unwell.	
P332+P313	If skin irritation occurs: Get medical advice / attention.	
P337+P313	If eye irritation persists: Get medical advice / attention.	
P330 P302+P352	Rinse mouth. IF ON SKIN: wash with plenty of water.	
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P301+P312	IF SWALLOWED: Call a POISON CENTER / doctor / / if you feel unwell.	
torage: <b>P405</b>	Store locked up.	
isposal:	Store locked up.	
P501	Dispose of contents / container to an approved waste disposal plant.	
The mixture contains		
2.00%;2.00% of		
components of unknown acute oral / dermal		
toxicity.		
.2. Other hazards		
nformation not available		
3. Composition/in	nformation on ingredients	
3.2. Mixtures		
Contains:		
Identification	Conc. % Classification:	

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WATER			
CAS 7732-18-5	97.471		
EC 231-791-2			
INDEX -			
NITRIC ACID			
CAS 7697-37-2	2	Oxidising liquid, category 2 H272, Skin corrosion, category 1 H318	gory 1A H314, Serious
EC 231-714-2			
INDEX 007-004-00-1			
Hydrofluoric Acid			
CAS 7664-39-3	0.5	Acute toxicity, category 1 H310, Acute toxicity, categor toxicity, category 2 H330, Skin corrosion, category 1A damage, category 1 H318	
EC 231-634-8		damage, calegoly 111510	
INDEX 009-003-00-1			
Silver Nitrate			
CAS 7761-88-8	0.002	Oxidising solid, category 2 H272, Acute toxicity, categor corrosion, category 1B H314, Serious eye damage, cat Hazardous to the aquatic environment, acute toxicity, c M=1000, Hazardous to the aquatic environment, chron H410 M=1	tegory 1 H318, category 1 H400
EC 231-853-9			
INDEX 047-001-00-2			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# 4. First-aid measures

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

## 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

# 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# 5. Fire-fighting measures

# 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

## 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

## 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

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							r age 11. 3/14	
3. Specific	end use(s)							
formation n	ot available							
8. Expo	sure contro	ols/persona	al protectio	on				
8.1. Contro	ol parameters							
egulatory R	eferences:							
	NIOSH-REL		NIOSH publi	ication No. 2005- Il Exposure Limits	149, 3th printing, 20	07.	7-1-1910 1000	
USA USA	OSHA-PEL CAL/OSHA-PE OEL EU	ΞL	California Dir Directive (EL 2004/37/EC;	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He	alth (Cal-OSHA) F 64; Directive 2009/	ermissible Exposure Limits (PELs). 61/EU; Directive 2006/15/EC; Dire	ctive
USA USA EU NITRIC AC	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH	ΞL	California Di Directive (EL	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He ective (EU) 2017/16	alth (Cal-OSHA) F 64; Directive 2009/	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold	osha-pel Cal/osha-pi Oel Eu Tlv-acgih	EL Country	California Dir Directive (EL 2004/37/EC;	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He ective (EU) 2017/16	ealth (Cal-OSHA) F 54; Directive 2009/ 322/EEC.	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH		California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He rective (EU) 2017/16 9/EC; Directive 91/3 STEL/15min	ealth (Cal-OSHA) F 54; Directive 2009/ 322/EEC.	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH		California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3	palth (Cal-OSHA) F 94; Directive 2009/ 322/EEC.	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH	Country	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He rective (EU) 2017/16 9/EC; Directive 91/3 STEL/15min	ealth (Cal-OSHA) F 54; Directive 2009/ 322/EEC.	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH	Country	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3	vision of Occupat J) 2017/2398; Dir Directive 2000/3	tional Safety and He rective (EU) 2017/16 99/EC; Directive 91/3 STEL/15min mg/m3 10.3	ppm 4	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH	Country - EU USA	California Dir Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6	ppm 4 1 1	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH	Country - EU	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2	tional Safety and He rective (EU) 2017/16 99/EC; Directive 91/3 STEL/15min mg/m3 10.3	ppm 4	ermissible Exposure Limits (PELs).	ctive
Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10	ppm 4 1 1 4	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH Hydrofluor Threshold	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA USA	California Dir Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5 5 5 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2	tional Safety and He rective (EU) 2017/16 9/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10 10	ppm 4 1 4 4 4	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH Hydrofluor Threshold	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5 5 5 5 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2 2	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10 10 10 STEL/15min	ppm 4 1 4 4 4 4 4	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH Hydrofluor Threshold Type	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA USA Country	California Dir Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5 5 5 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2 2 2 2 2 2	tional Safety and He rective (EU) 2017/16 9/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10 10	ppm 4 1 4 4 4	ermissible Exposure Limits (PELs).	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH Hydrofluor Threshold Type OSHA	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA USA Country USA	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5 5 5 5 5 7 7 WA/8h mg/m3	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2 2 2 2 2 2 2 3 3	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10 10 10 STEL/15min mg/m3	ppm 4 4 4 4 ppm ppm	ermissible Exposure Limits (PELs). 61/EU; Directive 2006/15/EC; Dire	ctive
USA USA EU NITRIC AC Threshold Type TLV-ACGIH OEL OSHA CAL/OSHA NIOSH Hydrofluor Threshold Type	OSHA-PEL CAL/OSHA-PE OEL EU TLV-ACGIH Limit Value	Country - EU USA USA USA Country	California Di Directive (EL 2004/37/EC; ACGIH 2018 TWA/8h mg/m3 5.2 5 5 5 5 5 5	vision of Occupat J) 2017/2398; Dir Directive 2000/3 ppm 2 2 2 2 2 2 2 2 2	tional Safety and He rective (EU) 2017/16 19/EC; Directive 91/3 STEL/15min mg/m3 10.3 2.6 10 10 10 STEL/15min	ppm 4 1 4 4 4 4 4	ermissible Exposure Limits (PELs).	ctive

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

# 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

	N
Appearance	Not available
Colour	Not available
Odour	Not available
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 93 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

### 9.2. Other information

Information not available

# 10. Stability and reactivity

#### 10.1. Reactivity

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NITRIC ACID	
Decomposes at 84°C/183°F.Possibility of self-ignition.	
10.2. Chemical stability	
Silver Nitrate	
Decomposes on contact with: light.	
10.3. Possibility of hazardous reactions	
The product may react violently with water.	
10.4. Conditions to avoid	
Avoid overheating. Prevent moisture or water from penetrating inside the containers.	
NITRIC ACID	
Avoid exposure to: heat,light.	
Silver Nitrate	
Avoid exposure to: light.	
10.5. Incompatible materials	
NITRIC ACID	
Incompatible with: flammable substances, reducing substances, alcohol, metals, basic substances, acetone, acetic	acid,acetic anhydride.Incompatible
materials: plastic materials.	
Silver Nitrate	
In competible with strong reducing egente cleckele ommenie megnesium strong beess	
Incompatible with: strong reducing agents, alcohols, ammonia, magnesium, strong bases.	
10.6. Hazardous decomposition products	
NITRIC ACID	

May develop: nitric oxide.

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	I
11. Toxicological information	
n the absence of experimental data for the product itself, health hazards are evaluated according to the prope	rties of the substances it contains, using
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indicated	in section 3, to evaluate the toxicological
effects of exposure to the product.	
Metabolism, toxicokinetics, mechanism of action and other information	
nformation not available	
nformation on likely routes of exposure	
nformation not available	
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
nformation not available	
nteractive effects	
nformation not available	
ACUTE TOXICITY	
Demonius to the receivatory treat	
Corrosive to the respiratory tract.	
Silver Nitrate	
.D50 (Oral) 1173 mg/kg rat	
NITRIC ACID	
_C50 (Inhalation) 67 ppm/4h Rat	
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye irritation	
RESPIRATORY OR SKIN SENSITISATION	
Does not meet the classification criteria for this hazard class	

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GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

## ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

## 12.1. Toxicity

Silver Nitrate	
LC50 - for Fish	0,006 mg/l/96h Oncorhynchus mykiss (rainbow trout)
EC50 - for Crustacea	0,0006 mg/l/48h Daphnia magna (water flea)
Chronic NOEC for Fish	0,108 mg/l Oncorhynchus mykiss (rainbow trout)

### 12.2. Persistence and degradability

NITRIC ACID Solubility in water Degradability: information not available

> 100000 mg/l

## 12.3. Bioaccumulative potential

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NITRIC ACID

Partition coefficient: n-octanol/water

## 12.4. Mobility in soil

Information not available

# 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## 12.6. Other adverse effects

Information not available

# 13. Disposal considerations

## 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# 14. Transport information

# 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal Regulations

<u>TSCA:</u>

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

7664-39-3

Hydrofluoric Acid

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

<u>Clean Water Act –</u> Priority Pollutants:

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No component(s) listed.		
Clean Water Act –		
Toxic Pollutants:		
No component(s) listed.		
DEA List I Chemicals (Precursor Chemicals):		
No component(s) listed.		
DEA List II Chemicals (Essential Chemicals):		
No component(s) listed.		
EPA List of Lists:		
313 Category Code:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
7761-88-8	Silver Nitrate (Silver soluble salts)	
1309-64-4	Antimony(III) Oxide (Antimony	
EPCRA 302 EHS TPQ:	compounds)	
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
EPCRA 304 EHS RQ:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
CERCLA RQ:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
16919-19-0	Ammonium hexafluorosilicate (Fluorides, inorganic)	
7761-88-8	Silver Nitrate (Silver soluble salts)	
1309-64-4	Antimony(III) Oxide (Antimony compounds)	
EPCRA 313 TRI:	··· F==)	
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
7761-88-8	Silver Nitrate (Silver soluble salts)	
1309-64-4	Antimony(III) Oxide (Antimony compounds)	
RCRA Code:	oompoundoj	
7664-39-3	Hydrofluoric Acid	

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CAA 112 (r) RMP TQ:		
No component(s) listed.		
State Regulations		
Massachussetts:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
<u>Ainnesota:</u>		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
New Jersey:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
New York:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
Pennsylvania:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
California:		
7697-37-2	NITRIC ACID	
7664-39-3	Hydrofluoric Acid	
Proposition 65:		
nternational Regulations		
Substances subject to exportation reporting pursuant to (EC) I	Reg. 649/2012:	
None		
Substances subject to the Rotterdam Convention:		
None		
Substances subject to the Stockholm Convention:		
None		
Candadian WHMIS		
nformation not available		

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# 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H27	2	May intensify fire; oxidiser.
H31	0	Fatal in contact with skin.
H30	0	Fatal if swallowed.
H33	0	Fatal if inhaled.
H31	1	Toxic in contact with skin.
H30	2	Harmful if swallowed.
H31	4	Causes severe skin burns and eye damage.
H31	9	Causes serious eye irritation.
H31	5	Causes skin irritation.
H40	0	Very toxic to aquatic life.
H41	0	Very toxic to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3

- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances

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- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

- 6 NYCRR part 597

- Cal/OSHA website

- California Safe Drinking Water and Toxic Enforcement Act

- EPA website

- Hazard Comunication Standard (HCS 2012)

- IARC website

- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act

- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"

- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".

- New Jersey Worker and Community Right to know Act N.J.S.A.

- NTP. 2011. Report on Carcinogens, 12th Edition.

- OSHA website

- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.