EXAXOL CHEMI	Revision nr. 1 Dated 15/9/2016				
C1003 - Cadmium AA 1	Printed on 9/15/2016 Page n. 1/13				
Safety data sheet according to U.S.A. Federal Hazcom 2012 SECTION 1. Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier Code: Product name	C1003 Cadmium AA 1,000 ppm in 2% Nitric Acid				
1.2. Relevant identified uses of the substance or m Intended use For laboratory use or					
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	EXAXOL CHEMICAL CORPORATION 14325 60 TH ST N 33760 CLEARWATER - FLORIDA US Tel. 1-727-524-7732				
e-mail address	Fax 1-727-532-8221				
1.4. Emergency telephone number For urgent inquiries refer to 1-800-255-3924 ChemTel Inc.					
SECTION 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 St Carcinogenicity, category Reproductive toxicity, cate Eye irritation, category 2 Skin irritation, category 2	18
Signal words:	Danger
Hazard statements:	
H350	May cause cancer.

May cause cancer. Suspected of damaging fertility or the unborn child. Causes serious eye irritation. Causes skin irritation.

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H361	Suspected of damaging fertility or the unborn child.			
H319	Causes serious eye irritation.			
H315	Causes skin irritation.			
Precautionary statement	S:			
Prevention:				
P201	Obtain special instructions before use.			
P202	Do not handle until all safety precautions have been read and understood.			
P264 Wash skin thoroughly after handling.				
P280 Wear protective gloves / protective clothing / eye protection / face protection.				
Response:				
P302+P352	IF ON SKIN: wash with plenty of water.			
P305+P351+P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses rinsing.	s, if present and easy to do. Continue		
P308+P313	IF exposed or concerned: get medical advice.			
P321	Specific treatment (see label).			
P332+P313	If skin irritation occurs: get medical advice.			
P337+P313	V337+P313 If eye irritation persists: get medical advice / attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
Storage:				
P405	Store locked up.			
Disposal: P501				
	Dispose of contents / container to an approved waste disposal plant.			

aquatic environment, chronic

The product is not classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification:
WATER		
CAS. 7732-18-5	50 - 100	
NITRIC ACID		
CAS. 7697-37-2	1 - 3	Oxidising liquid, category 3 H272, Skin corrosion, category 1A H314
Cadmium		0
CAS. 7440-43-9	0.1 - 0.25	Carcinogenicity, category 1B H350, Germ cell mutagenicity, category 2 H341, Reproductive toxicity, category 2 H361, Acute toxicity, category 2 H330, Specific target organ toxicity - repeated exposure, category 1 H372, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1, Hazardous to the

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toxicity, category 1 H410

Note: Upper limit is not included into the range.

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

SECTION 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.

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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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).

SECTION 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. Check incompatibility for container material in section 7. 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.

SECTION 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.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

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Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1- 1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

NITRIC ACID

NITKIC ACID					
Threshold Limit Value.	•				
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	5.2	2	10.3	4
OEL	EU			2.6	1
OSHA	USA	5	2		
CAL/OSHA	USA	5	2	10	4
NIOSH	USA	5	2	10	4

Cadmium						
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OSHA	USA	0.005				
CAL/OSHA	USA	0.005				

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must comply with current regulations.

Provide an emergency shower with face and eye wash station.

The product must be used inside a closed circuit, in a well-ventilated environment and with strong localised aspiration systems in place.

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.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). 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

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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 and 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.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	Not availab
Colour	Not availab
Odour	Not availab
Odour threshold.	Not availab
pH.	Not availab
Melting point / freezing point.	Not availab
Initial boiling point.	Not availab
Boiling range.	Not availab
Flash point.	> 93 °C.
Evaporation Rate	Not availab
Flammability of solids and gases	Not availab
Lower inflammability limit.	Not availab
Upper inflammability limit.	Not availab
Lower explosive limit.	Not availab
Upper explosive limit.	Not availab
Vapour pressure.	Not availab
Vapour density	Not availab
Relative density.	1.006 Kg/l
Solubility	Not availab
Partition coefficient: n-octanol/water	Not availab
Auto-ignition temperature.	Not availab
Decomposition temperature.	Not availab
Viscosity	Not availab
Explosive properties	Not availab
Oxidising properties	Not availab

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

NITRIC ACID: decomposes at 84°C with possibility of self-ignition.

10.2. Chemical stability.

Information not available.

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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: exposure to heat and light.

10.5. Incompatible materials.

NITRIC ACID: flammable substances, reducing substances, alcohol, basic substances and metals; acetone, acetic acid, acetic anhydride and certain plastics.

10.6. Hazardous decomposition products.

NITRIC ACID: nitric oxides.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It 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.

This product should be considered carcinogenic for human beings. Currently available data suggest that human exposure to the substance contained in this product may give rise to cancer development.

This product must be handled carefully because of its possible teratogenic effects, which may reduce human fertility or because of its possible teratogenic effects, which may be toxic and damage the foetus development.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin.

Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

NITRIC ACID LC50 (Inhalation).67 ppm/4h Rat

Carcinogenicity Assessment:7440-43-9Cadmium IARC:1 NTP: Known

SECTION 12. Ecological information.

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

12.1. Toxicity. Information not available.

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12.2. Persistence and degradability.

NITRIC ACID

Solubility in water. > 1000000 mg/l Biodegradability: Information not available.

12.3. Bioaccumulative potential.

NITRIC ACID Partition coefficient: n- < 3 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.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to dangerous goods transport regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, UN: 3264 IATA:

14.2. UN proper shipping name.

ADR / RID:

CORROSIVE LIQUID, ACIDIC, INORGANIC,

	EXAX	OL CHEMICAL CORPORAT	ION	Revision nr Dated 15/9/	
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IMDG:	N.O.S. (NITRI ACID) CORROSIVE LIQUID, ACID INORGANIC, N.O.S. (NITRI	IC,			
IATA:	ACID)				
4.3. Transport ha	zard class(es).				
ADR / RID:	Class: 8	Label: 8			
IMDG:	Class: 8	Label: 8	N N N N N N N N N N N N N N N N N N N		
IATA:	Class: 8	Label: 8			
4.4. Packing grou	ıp.		Ŷ		
ADR / RID, IMDG IATA:	,	Ш			
4.5. Environment	al hazards.				
ADR / RID:	NO				
4.6. Special preca	autions for user.				
ADR / RID:		Nr. Kemler: 80	Limite Quan	ed tity 5 L	Tunnel restriction code (E)
		Special Provision: -			
IMDG:		EMS: F-A, S-B	Limite		
IATA:		Cargo:	Maxin	tity 5 L num tity: 60 L	Packaging instructions: 856
		Pass.:	Maxin quant	num tity: 5 L	Packaging instructions: 852
		Special Instructions:	A3, A	803	0.02

Information not relevant.

SECTION 15. Regulatory information.

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

U.S. Federal Regulations.

TSCA:

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All components are listed on TSCA Inventory.	
Clean Air Act Section 112(b):	
7440-43-9	Cadmium
Clean Air Act Section 602 Class I Substances:	
No component(s) listed.	
Clean Air Act Section 602 Class II Substances:	
No component(s) listed.	
Clean Water Act – Priority Pollutants:	
7440-43-9	Cadmium
<u>Clean Water Act –</u> <u>Toxic Pollutants:</u>	
7440-43-9	Cadmium
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:	
7440-43-9	Cadmium
7697-37-2 EPCRA 302 EHS TPQ:	NITRIC ACID
7697-37-2 EPCRA 304 EHS RQ:	NITRIC ACID
EPCKA 304 EHS RQ:	
7697-37-2	NITRIC ACID
CERCLA RQ:	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
EPCRA 313 TRI:	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
RCRA Code:	

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No component(s) listed.	
CAA 112 (r) RMP TQ:	
No component(s) listed.	
State Regulations.	
Massachussetts:	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
<u>Minnesota:</u>	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
<u>New Jersey:</u>	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
<u>New York:</u>	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
Pennsylvania:	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
California:	
7440-43-9	Cadmium
7697-37-2	NITRIC ACID
Proposition 65:	
WARNING! This product contains chemicals known to the State	of California to cause cancer and birth defects or reproductive harm.
7440-43-9	Cadmium C/D/R
International Regulations.	
Substances subject to exportation reporting pursuant to (EC) Re	g. 649/2012:
Substances subject to the Rotterdam Convention:	
None.	
Substances subject to the Stockholm Convention:	
None.	
Candadian WHMIS.	

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Information not available.

SECTION 16. Other information.

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

Ox. Liq. 3	Oxidising liquid, category 3
Carc. 1B	Carcinogenicity, category 1B
Muta. 2	Germ cell mutagenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 2	Acute toxicity, category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H272	May intensify fire; oxidiser.
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

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- 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	
- INRS - Fiche Toxicologique (toxicological sheet)	
- Patty - Industrial Hygiene and Toxicology	
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition	
- ECHA website	
- 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.	
i romuc appointed stair mut adequate training on now to use chemical products.	
	L