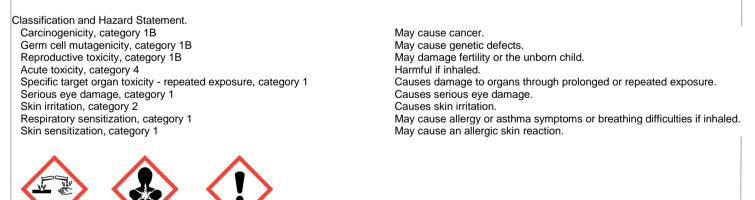
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Osfatu data akaata		
Safety data sheet a	ccording to U.S.A. Federal	Hazcom 2012
SECTION 1. Identification of the sub	stance/mixture and of the company/u	ndertaking
1.1. Product identifier		
Code:	PLCRH10	
Product name	Chromium(VI) 10,000 ppm Standard in Water	
1.2. Relevant identified uses of the substance or	mixture and uses advised against	
Intended use For laboratory use of		
1.3. Details of the supplier of the safety data shee		
Name Full address	EXAXOL CHEMICAL CORPORATION 14325 60 TH ST N	
District and Country	33760 CLEARWATER - FLORIDA	
	Tel. 1-727-524-7732	
e-mail address	Fax 1-727-532-8221	
	info@exaxol.com	
	III C C CAADI COIII	
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.



Signal words:

Danger

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Hazard statements:

May cause cancer.
May cause genetic defects.
May damage fertility or the unborn child.
Harmful if inhaled.
Causes damage to organs through prolonged or repeated exposure.
Causes serious eye damage.
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Precautionary statements:

Brovention	
Prevention: P201	Obtain appaid instructions before use
P201 P202	Obtain special instructions before use.
P260	Do not handle until all safety precautions have been read and understood.
	Do not breathe dust / fume / gas / mist / vapours / spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
Response:	
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P310	Immediately call a POISON CENTER / doctor.
P321	Specific treatment (see label).
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.

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2.2. Other hazards.
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Environmental classification as for Reg. (EU) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement. Hazardous to the aquatic environment, chronic toxicity, category 2

Toxic to aquatic life with long lasting effects.



Hazard statements:

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: P273

Avoid release to the environment.

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Response: P391	Collect spillage.			
 Storage:				
Disposal: P501 	Dispose of contents / c	container to an appro	ved waste disposal plant.	
Additional hazards.				
SECTION 3. Com	nposition/informat	tion on ingred	ients.	
3.1. Substances.				
nformation not relevant.				
3.2. Mixtures.				
Contains:				
Identification. WATER		Conc. %.	Classification:	
CAS. 7732-18-5		50 - 100		
Sodium Chromate CAS. 7775-11-3		3 - 5	Carcinogenicity, category 1B	
			H350, Germ cell mutagenicity, category 1B H340, Reproductive toxicity, category 1B H360, Acute toxicity, category 2 H330, Acute toxicity, category 3 H301, Acute toxicity, category 4 H312, Specific target organ toxicity - repeated exposure, category 1 H372, Skin corrosion, category 1B H314, Respiratory sensitization, category 1 H334, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1, Hazardous to the aquatic environment, chronic toxicity, category 1 H410	

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.

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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 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).

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.

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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.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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.

Information not available.

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

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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 III 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 a hood visor or protective visor combined with airtight goggles (OSHA 29 CFR 1910.133).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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Oxidising properties Not available.	
9.2. Other information.	
Information not available.	
SECTION 10. Stability and reactivity.	
10.1. Reactivity.	
There are no particular risks of reaction with other substances in normal conditions of use.	
10.2. Chemical stability.	
The product is stable in normal conditions of use and storage.	
10.3. Possibility of hazardous reactions.	
No hazardous reactions are foreseeable in normal conditions of use and storage.	
10.4. Conditions to avoid.	
None in particular. However the usual precautions used for chemical products should be respected.	
10.5. Incompatible materials.	
Information not available.	
10.6. Hazardous decomposition products.	
Information not available.	
SECTION 11. Toxicological information.	
44.4 Information on toxical stand affacts	
11.1. Information on toxicological effects.	
In the absence of experimental data for the product itself, health hazards are evaluated according to the prop the criteria specified in the applicable regulation for classification.It is therefore necessary to take into ac	
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	
this product may give rise to cancer development.	
This product may have a mutagenic effect on human beings. Currently available data may suggest that huma this product may give rise to the development of hereditary gene alterations.	an exposure to the substance contained in

This product has a teratogenic effect on human beings: damages fertility and/or has toxic effects on fetus development. There is sufficient evidence to make us believe that the substance contained in the product is likely to affect the embryo-fetal development and/or the fetus development. Acute effects: inhalation of this product is harmful.

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Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

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.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. **12.1. Toxicity.**

Information not available.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

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.

CONTAMINATED PACKAGING

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

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SECTION 15. Regulatory informatio	n.		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.			
U.S. Federal Regulations.			
TSCA:			
All components are listed on TSCA Inventory.			
Clean Air Act Section 112(b):			
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)		
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:			
No component(s) listed.			
<u>Clean Water Act –</u> Toxic Pollutants:			
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)		
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:			
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)		
EPCRA 302 EHS TPQ:			
No component(s) listed.			
EPCRA 304 EHS RQ:			

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No component(s) listed.	
CERCLA RQ:	
No component(s) listed.	
EPCRA 313 TRI:	
7775-11-3	Sodium Chromate (Chromium VI
RCRA Code:	soluble compounds)
No component(s) listed.	
CAA 112 (r) RMP TQ:	
No component(s) listed.	
State Regulations.	
Massachussetts:	
7775-11-3	Sodium Chromate (Chromium VI
Minnesota:	soluble compounds)
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
New Jersey:	
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
New York:	
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
Pennsylvania:	
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
<u>California:</u>	
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
Proposition 65:	
WARNING! This product contains chemicals known to the State	of California to cause cancer and birth defects or reproductive harm.
7775-11-3	Sodium Chromate (Chromium VI soluble compounds)
International Regulations.	
Substances subject to exportation reporting pursuant to (EC) Re	<u>g. 649/2012:</u>
None.	
Substances subject to the Rotterdam Convention:	

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None.

Substances subject to the Stockholm Convention:

None.

Candadian WHMIS.

Information not available.

SECTION 16. Other information.

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

Carc. 1B	Carcinogenicity, category 1B
Muta. 1B	Germ cell mutagenicity, category 1B
Repr. 1B	Reproductive toxicity, category 1B
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
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
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
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
H350	May cause cancer.
H340	May cause genetic defects.
H360	May damage fertility or the unborn child.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H332	Harmful 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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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May cause an allergic skin reaction.

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1317	May cause an anergic skin reaction.	
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.	
 ADR: European Agreemer CAA 112 ® RMP TQ: Risk CAS NUMBER: Chemical CES0: Effective concentrat CERCLA RQ: Reportable 0 CLP: EC Regulation 1272/ DEA: Drug Enforcement A EmS: Emergency Schedul EPA: US Environmental PI EPCRA 302 EHS TPQ: Ex EPCRA 304 EHS RQ: Extr EPCRA 305 EHS TPQ: Ex GHS: Globally Harmonized IATA DGR: International Maritime LC50: Lethal Concentration IMDG: International Maritime LC50: Lethal Concentration LD50: Lethal dose 50% OEL: Occupational Exposure RCRA Code: Resource Co REL: Recommended expo RID: Regulation concernin TLV: Threshold Limit Value TLV CEILING: Concentration TLN A TIME A	tion (required to induce a 50% effect) Quantity (Comprehensive Environment Response, Compensation, and Liability Act) 2008 dministration e rotection Agency ling and Community Righ-to Know Act tremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code) elease Inventory (Section 313 Category Code) elease Inventory (Section 313 Category Code) d System of classification and labeling of chemicals ir Transport Association Dangerous Goods Regulation entration 50% ne Code for dangerous goods e Organization n 50% ure Level evel onservation and Recovery Act Code sure limit g the international transport of dangerous goods by train e ion that should not be exceeded during any time of occupational exposure. Control Act posure limit age exposure limit gage exposure limit gage exposure limit frects of Chemical Substances e (toxicological sheet) and Toxicology erites of Industrial Materials-7, 1989 Edition iater and Toxic Enforcement Act hdard (HCS 2012) lated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act Department of public health 670.000: "Right to Know". ommunity Right to know Act NJ.S.A.	

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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.