EXAXOL	CHEMICAL CORPORATION	Revision nr. 1
-		Dated 3/31/2020
		First compilation
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	Safety Data Sheet According to U.S.A. Federal Hazcom 2012	
1. Identification		
1.1. Product identifier		
Code:	H3405	
Product name	Hydroquinone 1% w/v	
	stance or mixture and uses advised against toy use only.	
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 US	
	Tel. 1-727-524-7732	
	Fax 1-727-532-8221	
e-mail address		
	info@exaxol.com	
1.4. Emergency telephone number For urgent inquiries refer to	1-800-255-3924 ChemTel Inc.	
2. Hazards identification		
1. Classification of the substance or mix	xture	
roduct thus requires a safety datasheet.	uant to the provisions set forth in OSHA Hazard Commun ks for health and/or the environment are given in sections	
lassification and Hazard Statement		
azard pictograms: Carcinogenicity, category 2	Suspected of causing	
Germ cell mutagenicity, category 2	cancer. Suspected of causing	
Eye irritation, category 2	genetic defects. Causes serious eye	
	irritation. May cause an allergic	

[		CAL CORPORATION	Revision nr. 1
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	!		Ι
Signal words:	Warning		
Hazard statements:			
nazaru statements.			
H351 H341 H319 H317	Suspected of causing cano Suspected of causing gene Causes serious eye irritatio May cause an allergic skin	etic defects. on.	
Precautionary statement	s:		
Prevention: P261 P202 P201 P280 P264 P272	Do not handle until all safe Obtain special instructions Wear protective gloves/ pro Wash skin thoroughly after	otective clothing / eye protection / face protection	
Response: P305+P351+P338	IF IN EYES: Rinse cautiou	sly with water for several minutes. Remove cor	ntact lenses, if present and easy to do. Continue
P308+P313 P333+P313 P337+P313 P302+P352 P363 Storage: P405	If skin irritation or rash occ		
Disposal: P501	Dispose of contents / cont	ainer to an approved waste disposal plant.	
2.2. Other hazards			
Information not available			
3. Composition	/information on ingre	dients	
3.2. Mixtures			
Contains:			
Identification WATER	Conc. %	Classification:	
CAS 7732-18-5 EC 231-791-2 INDEX - <b>HYDROQUINONE</b>	99		
CAS 123-31-9	1	Carcinogenicity, category 2 H351, Germ	cell mutagenicity, category 2 H341,

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Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10

EC 204-617-8 INDEX 604-005-00-4

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 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

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#### 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

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

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

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).
	TLV-ACGIH	ACGIH 2018

### HYDROQUINONE

Threshold Limit Value	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	1			

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OSHA	USA	2		
CAL/OSHA	USA	2		
NIOSH	USA		2 (C)	

Legend:

(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.

#### 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

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Not available

Not available Not available

Not available

Not available

1.00

Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties

### 9.2. Other information

Information not available

### 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

### 11. Toxicological information

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.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

HYDROQUINONE

LD50 (Oral) 302 mg/kg Rat

LD50 (Dermal) > 900 mg/kg Rat

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Suspected of causing genetic defects

#### CARCINOGENICITY

Suspected of causing cancer

Carcinogenicity Assessment: 123-31-9HYDROQUINONE ACGIH:: A3 IARC:3

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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### 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

HYDROQUINONE	
LC50 - for Fish	0,044 mg/l/96h Danio rerio
EC50 - for Crustacea	0,13 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	17 mg/l/72h Chlorococcales
12.2. Devoistance and desvedability	
12.2. Persistence and degradability	
HYDROQUINONE	
Solubility in water	> 10000 mg/l
Rapidly degradable	
12.3. Bioaccumulative potential	
HYDROQUINONE	
Partition coefficient: n-octanol/water	0.59
BCF	3.162
12.4. Mobility in soil	
HYDROQUINONE	

Partition coefficient: soil/water	1.585
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

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### 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

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## 15. Regulatory information

### 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):

123-31-9

HYDROQUINONE

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:

No component(s) listed.

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

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

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EPA List of Lists:	
313 Category Code:	
123-31-9 EPCRA 302 EHS TPQ:	HYDROQUINONE
123-31-9 EPCRA 304 EHS RQ:	HYDROQUINONE
123-31-9 CERCLA RQ:	HYDROQUINONE
123-31-9 EPCRA 313 TRI:	HYDROQUINONE
123-31-9 RCRA Code:	HYDROQUINONE
No component(s) listed.	
CAA 112 (r) RMP TQ:	
No component(s) listed.	
State Regulations	
Massachussetts:	
123-31-9 Minnesota:	HYDROQUINONE
123-31-9 <u>New Jersey:</u>	HYDROQUINONE
123-31-9 <u>New York:</u>	HYDROQUINONE
123-31-9 Pennsylvania:	HYDROQUINONE
123-31-9 California:	HYDROQUINONE
123-31-9	HYDROQUINONE

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Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Candadian WHMIS

Information not available

## 16. Other information

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

H351	Suspected of causing cancer.
H341	Suspected of causing genetic defects.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic 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
- 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

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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 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.