	EXAXOL CHEMICAL CORPORATION		
F2206 -	Fehling Solution B (Alkaline)	First compilation Printed on 3/17/2020 Page n. 1/12	
	Safety Data Sheet According to U.S.A. Federal Hazcom 2012		
1. Identification			
1.1. Product identifier Code: Product name	F2206 Fehling Solution B (Alkaline)		
	ubstance or mixture and uses advised against pratory use only.		
1.3. Details of the supplier of the safe Name Full address District and Country	EXAXOL CHEMICAL CORPORATION 14325 60 TH ST N 33760 CLEARWATER - FLORIDA US		
e-mail address	Tel. 1-727-524-7732 Fax 1-727-532-8221 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	mixture		
roduct thus requires a safety datasheet.	ursuant to the provisions set forth in OSHA Hazard Commun		
Classification and Hazard Statement			
łazard pictograms: Skin corrosion, category 1 Serious eye damage, category 1	Causes severe skin burns and eye damage. Causes serious eye		
	damage.		

			Devision of 4
	EXAXOL CHEMI	CAL CORPORATION	Revision nr. 1
			Dated 3/17/2020
			First compilation
	F2206 - Fehling	Solution B (Alkaline)	Printed on 3/17/2020
	1 2200 - 1 ening		Page n. 2/12
1			
	_		
Signal words:	Danger		
Hazard statements:			
H314	Causes severe skin burns	and eve damage	
11314	Causes severe skin burns	and eye damaye.	
Precautionary statements:			
Prevention:			
P260	Do not breathe dust / fume	e / gas / mist / vapours / spray.	
		otective clothing / eye protection / face protection.	
	Wash skin thoroughly afte	r handling.	
Response: P305+P351+P338	IE IN EVES: Bings courties	why with water for accord minutes. Remove contact langes	if propert and easy to do Continue
	rinsing.	usly with water for several minutes. Remove contact lenses,	If present and easy to do. Continue
		nouth. Do NOT induce vomiting.	
		e off immediately all contaminated clothing. Rinse skin with	water / shower.
	Immediately call a POISO		
		on to fresh air and keep comfortable for breathing.	
-	Wash contaminated clothin	ng before reuse.	
Storage: P405	Store locked up.		
Disposal:			
P501	Dispose of contents / cont	ainer to an approved waste disposal plant.	
2.2. Other hazards			
Information not available			
3. Composition/inf	ormation on ingre	dients	
	officiation official		
3.2. Mixtures			
Contains:			
Identification	Conc. %	Classification:	
WATER			
CAS 7732-18-5	53.4		
	53.4		
EC 231-791-2			
INDEX -			
POTASSIUM SODIUM TA	RTRATE,		
TETRAHYDRATE			
CAS 6381-59-5	34.6		
EC 206-156-8			
INDEX -			
SODIUM HYDROXIDE			
CAS 1310-73-2	12	Substance or mixture corrosive to metals, category 1	
EC 215-185-5		category 1A H314, Serious eye damage, category 1 H	1310
INDEX 011-002-00-6			

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1 Dated 3/17/2020

Printed on 3/17/2020

First compilation

Page n. 3/12

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

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.

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1 Dated 3/17/2020 First compilation Printed on 3/17/2020 Page n. 4/12

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.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

USA OS USA CA	IOSH-REL SHA-PEL AL/OSHA-PEL _V-ACGIH	Occupational California Div	NIOSH publication No. 2005-149, 3th printing, 2007. Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000. California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs). ACGIH 2018		
SODIUM HYDRO	DXIDE				
Threshold Limit	Value				
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-			2 (C)	
OSHA	USA	2			
CAL/OSHA	USA	2			
NIOSH	USA			2 (C)	
Legend:					

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1 Dated 3/17/2020 First compilation

Printed on 3/17/2020

Page n. 5/12

(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

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1 Dated 3/17/2020

First compilation

Printed on 3/17/2020

Page n. 6/12

Viscosity Explosive properties Oxidising properties Not available Not available Not available

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.

SODIUM HYDROXIDE

Avoid exposure to: air,moisture,sources of heat.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminium, water, flammable liquids.

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

F2206 - Fehling Solution B (Alkaline)

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

Revision nr. 1

Dated 3/17/2020 First compilation

Printed on 3/17/2020

Page n. 7/12

Information not available Interactive effects Information not available ACUTE TOXICITY

Information on likely routes of exposure

Information not available

SODIUM HYDROXIDE

LD50 (Oral) 1350 mg/kg Rat

LD50 (Dermal) 1350 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1 Dated 3/17/2020

First compilation

Printed on 3/17/2020

Page n. 8/12

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

13. Disposal considerations

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

POTASSIUM SODIUM TARTRATE,	
TETRAHYDRATE LC50 - for Fish	1000 mg/l/96h Pimephales promelas
EC50 - for Crustacea	894 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	965 mg/l/72h Pseudokirchnerella subcapitata
12.2. Persistence and degradability	
SODIUM HYDROXIDE	
Solubility in water	> 10000 mg/l
Degradability: information not available	
POTASSIUM SODIUM TARTRATE,	
TETRAHYDRATE	1000000
Solubility in water Rapidly degradable	100000 mg/l
12.3. Bioaccumulative potential	
Information not available	
momation 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	

F2206 - Fehling Solution B (Alkaline)

Revision nr. 1

Dated 3/17/2020 First compilation

Printed on 3/17/2020

Page n. 9/12

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

UN 1824, Sodium Hydroxide Solution, 8, PG II

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):

No component(s) listed.

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> <u>Toxic Pollutants:</u>

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:

	EXAXOL CHEMICAL CORPORATION	Revision nr. 1 Dated 3/17/2020 First compilation
	F2206 - Fehling Solution B (Alkaline)	Printed on 3/17/2020 Page n. 10/12
313 Category Code:		
No component(s) listed.		
EPCRA 302 EHS TPQ:		
No component(s) listed.		
EPCRA 304 EHS RQ:		
No component(s) listed.		
CERCLA RQ:		
1310-73-2 EPCRA 313 TRI:	SODIUM HYDROXIDE	
No component(s) listed.		
RCRA Code:		
No component(s) listed.		
CAA 112 (r) RMP TQ:		
No component(s) listed.		
State Regulations		
Massachussetts:		
1310-73-2	SODIUM HYDROXIDE	
<u>Minnesota:</u>		
1310-73-2	SODIUM HYDROXIDE	
New Jersey:		
1310-73-2	SODIUM HYDROXIDE	
New York:		
1310-73-2 Pennsylvania:	SODIUM HYDROXIDE	
1310-73-2	SODIUM HYDROXIDE	
California:		
1310-73-2 Proposition 65:	SODIUM HYDROXIDE	
International Regulations		

F2206 - Fehling Solution B (Alkaline)

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:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

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.

Revision nr. 1 Dated 3/17/2020

First compilation

Printed on 3/17/2020

Page n. 11/12

EXAXOL CHEMICAL CORPORATION	Revision nr. 1
	Dated 3/17/2020
	First compilation
F2206 - Fehling Solution B (Alkaline)	Printed on 3/17/2020
	Page n. 12/12
SENERAL 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 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 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" 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 lote for users: 'he information contained in the present sheet are based on our own knowledge on the date of the last vers voroughness of provided information according to each specific use of the product. 'his document must not be regarded as a guarantee on any specific product property. he use of this product is not subject to our direct control; therefore, users must, under their own responsibility, i	ion. Users must verify the suitability and