SDS Revision Date:

06/30/2014



Sid Harvey item #'s F1-30 & F1-30A SDS # Z0194

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Identity	Mitco Tirewite
Alternate Names	Mitco Tirewite

1.2. Relevant identified uses of the substance o	r mixture and uses advised against
Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet Company Name

Jobe Industries Inc 1600 West Elizabeth Avenue Linden, NJ 07036

Emergency CHEMTREC (USA) Customer Service: Jobe Industries Inc

(800) 424-9300 (908) 862-0400

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Acute Tox. 4;H302Harmful if swallowed.Skin Corr. 1A;H314Causes severe skin burns and eye damage.Eye Dam. 1;H318Causes serious eye damage.2.2. Label elementsCauses serious eye damage.

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

SDS Revision Date:

06/30/2014



[Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Disodium metasilicate CAS Number: 0006834-92-0	1.0 - 10	Skin Corr. 1B;H314 STOT SE 3;H335	[1]
Potassium hydroxide. CAS Number: 0001310-58-3	1.0 - 10	Acute Tox. 4;H302 Skin Corr. 1A;H314	[1][2]
Ethylene glycol monobutyl ether CAS Number: 0000111-76-2	1.0 - 10	Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

SDS Revision Date:

06/30/2014



4. First aid measures 4.1. Description of first aid measures General Move victim to fresh air. Call 911 or emergency medical service if deemed necessary. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Inhalation Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a oneway valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Eyes Irrigate copiously with clean fresh water for at least 15 minutes, holding the eyelids apart and seek medical attention. Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Ingestion If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. 4.2. Most important symptoms and effects, both acute and delayed Overview Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. See section 2 for further details. Eyes Causes serious eye damage. Skin Causes severe skin burns and eye damage. Ingestion Harmful if swallowed.

5. Fire-fighting measures

SDS Revision Date:

06/30/2014



5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2 , powder, water spray. Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 degrees F (30C).

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Non-combustible, but may decompose upon heating to produce corrosive and/or toxic fumes.

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

Contact with metals may evolve flammable hydrogen gas.

Containers may explode when heated.

TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death.

Contact with molten substance may cause severe burns to skin and eyes.

Avoid any skin contact.

Effects of contact or inhalation may be delayed.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

ERG Guide No. 154

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined areas.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

DO NOT GET WATER INSIDE CONTAINERS.

6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Keep unauthorized personnel away.

Stay upwind.

Keep out of low areas.

Ventilate enclosed areas.

7. Handling and storage

SDS Revision Date:

06/30/2014



7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

		Expoour	-
CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppmRevised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]
		Supplier	No Established Limit
0001310-58-3 Potassium hydroxide.	OSHA	No Established Limit	
		ACGIH	Ceiling: 2 mg/m3
		NIOSH	C 2 mg/m3
		Supplier	No Established Limit
0006834-92-0	Disodium metasilicate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	ACHAN TLV/OSHA 2mg/m ³ PEL 2mg/m ³

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001310-58-3	Potassium hydroxide.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0006834-92-0	Disodium metasilicate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

SDS Revision Date:

06/30/2014



Respiratory	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
Eyes	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Chemical resistant clothing such as coveralls/apron boots should be worn. Emergency eyewash station should be in close proximity. Chemical Impervious Gloves
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
See section 2 for further	details [Prevention]:

9. Physical and chemical properties

Appearance	Light Brown Liquid
Odor	Fruity
Odor threshold	Not Measured
рН	13.8 (@100%)
Melting point / freezing point	Not Applicable
Initial boiling point and boiling range	212 F
Flash Point	None
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured
	Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.1212
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	Not Measured
9.2. Other information No other relevant information.	

SDS Revision Date:

06/30/2014



10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur. **10.2. Chemical stability**

Stable under normal circumstances. 10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Acids, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron. **10.6. Hazardous decomposition products**

Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 degrees F (30C).

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Disodium metasilicate - (6834-92-0)	1,153.00, Rat -	No data	No data	No data	No data
	Category: 4	available	available	available	available
Potassium hydroxide (1310-58-3)	365.00, Rat -	No data	No data	No data	No data
	Category: 4	available	available	available	available
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used.

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

jobe

SDS Revision Date:

06/30/2014

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data. **Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Disodium metasilicate - (6834-92-0)	210.00, Danio rerio	33.53, Ceriodaphnia dubia	400.00 (00 hr), Pseudokirchneriella subcapitata
Potassium hydroxide (1310-58-3)	Not Available	Not Available	Not Available
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself. **12.3. Bioaccumulative potential** Not Measured **12.4. Mobility in soil** No data available. **12.5. Results of PBT and vPvB assessment** This product contains no PBT/vPvB chemicals. **12.6. Other adverse effects** No data available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

	DOT (Domestic Surface Transportation)
14.1. UN number	NA1760
14.2. UN proper shipping name	NA1760, Compounds, cleaning liquid, (Potassium Hydroxide), 8, II
14.3. Transport hazard class(es)	DOT Hazard Class: 8 DOT Label: 8
14.4. Packing group	II
14.5. Environmental hazards	
IMDG Marine Poll	utant: No
14.6. Special precautions for use	r
No further in	nformation
14.7. Transport in bulk according	to Annex II of MARPOL73/78 and the IBC Code
Not Applica	ble

SDS Revision Date:

06/30/2014



15. Regulatory information		
Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.	
WHMIS Classification	D2B E	
US EPA Tier II Hazards	Fire: No	
	Sudden Release of Pressure: No	
	Reactive: No	
	Immediate (Acute): Yes	
	Delayed (Chronic): No	
EPCRA 311/312 Chemic	cals and RQs (lbs):	
Potassium hydrox	xide. (1,000.00)	
EPCRA 302 Extremely I (No Product Ingred		
EPCRA 313 Toxic Chen	nicals:	
Ethylene glycol m	onobutyl ether	
Proposition 65 - Carcin (No Product Ingred		
Proposition 65 - Develo (No Product Ingred	pmental Toxins (>0.0%): lients Listed)	
Proposition 65 - Female (No Product Ingred	e Repro Toxins (>0.0%): lients Listed)	
Proposition 65 - Male R (No Product Ingred		
N.J. RTK Substances (>	-1%):	
Ethylene glycol m	onobutyl ether	
Potassium hydrox		
Penn RTK Substances		
	onobutyl ether	

16. Other information

SDS Revision Date:

06/30/2014



The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is: H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eve irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Notice Thank you for your interest in, and use of, Jobe products. Jobe Industries Inc is pleased to be of service to you by supplying this Safety Data Sheet for your files. Jobe Manufacturing is concerned for your health and safety. Jobe products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the SDS. Before using any Jobe product, be sure to read the complete label and the Safety Data Sheet.

As a further word of caution, Jobe wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

SDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Jobe assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the products label and Safety Data Sheet.

End of Document

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT SID HARVEY COIL KWIK F1-30, F1-30A, F1-30B

MSDS DATE: 07/01/2009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SID HARVEY COIL KWIK F1-30, F1-30A, F1-30B

MANUFACTURER: Jobe Industries Inc ADDRESS: 1600 West Elizabeth Avenue, Linden, NJ 07036

EMERGENCY PHONE: (800) 338-8908 CHEMTREC PHONE: (800) 424-9300

PRODUCT TYPE: Alkaline liquid cleaning compound

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	C.A.S. NUMBER	PEL	%
2-Butoxy Ethanol	111-76-2	20 ppm TLV, 25 ppm PEL	<3
Sodium Metasilicate	6834-92-0	No limit established	<7
Potassium Hydroxide	1310-58-3	No limit established	<5

SECTION 3: HAZARDS IDENTIFICATION

Routes of Entry: Inhalation: minimal Health Hazards: Eyes: burns	Skin: yes	Ingestion: yes	
Skin: burns			
Carcinogenity: no Signs & symptoms of exposure: irrit	NTP: no IARC Mo ation & redness of	• •	OSHA regulated: no

SECTION 4: FIRST AID MEASURES

Emergency First aid Procedures:

EYES: Wash eyes immediately with large amounts of water. Occasionally lift lower and upper eyelids. Continue for at least 20 minutes. Get medical attention immediately.

SKIN: Remove contaminated garments and shoes immediately. Wash affected areas with large amounts of water for 15 – 20 minutes. Get medical attention immediately.

INTERNAL: If swallowed <u>DO NOT</u> induce vomiting. Rinse mouth with water and then drink 1 to 2 glasses of water. NEVER give anything by mouth to an unconscious person. Contact a physician immediately.

BREATHING: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give respiration, keep individual warm and get immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

FLASHPOINT: This product is non-flammable.	
EXTINGUISHING MEDIA: This product is non-flammable. Use extinguishing media suitable for materials already burning.	
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters working in areas where this product is present should be	
equipped with an approved, fully enclosed SCBA.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.	

NFPA HAZARD CLASSIFICATION HEALTH: 2 FLAMMABILITY: 1 OTHER:Alkali

REACTIVITY: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL:..... Dike to prevent spillage into streams or sewer systems. Consult local, state and federal authorities. WASTE DISPOSAL: As recommended by local, state and federal authorities.

MATERIAL SAFETY DATA SHEETNAME OF PRODUCTSID HARVEY COIL KWIK F1-30, F1-30A, F1-30B

MSDS DATE: 07/01/2009

SECTION 7: HANDLING AND STORAGE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: light brown liquid with fruity scent VAPOR PRESSURE:N/A VAPOR DENSITY (AIR=1): Greater than 1. SPECIFIC GRAVITY:1.1212 pH @ 100%:13.5-13.8 BOILING POINT: 210 degrees F. SOLUBILITY IN WATER: Completely soluble.

SECTION 10: STABILITY AND REACTIVITY

 STABILITY:
 Stable under normal conditions.

 HAZARDOUS POLYMERIZATION:
 This product not known to polymerize.

 INCOMPATIBILITY:
 Do not mix with acids or other detergents.

 HAZARDOUS BYPRODUCTS
 Carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: N/E

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:N/E

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: As recommended by local, state and federal authorities.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME: Compound, Cleaning Liquid (contains Potassium Hydroxide) HAZARD CLASS: 8 ID NUMBER: NA1760 PACKING GROUP: II LABEL STATEMENT: Corrosive

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT): N/E

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT SID HARVEY COIL KWIK F1-30, F1-30A, F1-30B

MSDS DATE: 07/01/2009

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: none

313 REPORTABLE INGREDIENTS: none

SECTION 16: OTHER INFORMATION