# ooo philip harris

### SAFETY DATA SHEET

FEHLINGS REAGENT N. 2

Page: 1

Compilation date: 19/05/2015

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: FEHLINGS REAGENT N. 2

Product code: A67889

Synonyms: POTASSIUM SODIUM TARTARATE SOLUTION ALCALINE

#### ALKALINE POTASSIUM SODIUM TARTARATE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Laboratory Chemicals, Manufacture of Substances.

### 1.3. Details of the supplier of the safety data sheet

Company name: PHILIP HARRIS 2 Gregory Street Hyde Cheshire SK14 4HR United Kingdom Tel: +44 (0)845 1200 506 Fax: +44 (0)161 367 2140 Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CHIP: C: R35

Classification under CLP: Met. Corr. 1: H290; Skin Corr. 1A: H314

Most important adverse effects: Causes severe burns.

### 2.2. Label elements

Label elements:

Hazard statements: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



FEHLINGS REAGENT N. 2

Page: 2

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+351+338: 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/. Label elements under CHIP: Hazard symbols: Corrosive. a 21 Risk phrases: R35: Causes severe burns. Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

### Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

#### SODIUM HYDROXIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-185-5	1310-73-2	C: R35	Skin Corr. 1A: H314	10-30%

#### Non-classified ingredients:

### WATER

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	7732-18-5	-	-	30-50%

### FEHLINGS REAGENT N. 2

### Page: 3

	POTASSIUM SOD	NUM (+)- TAI	RTRATE			
	- 6	6381-59-5	-	-	30-50%	
				· · · ·		
S	ection 4: First aid r	neasures				
	4.1. Description of f	first aid mea	sures			
	Sk	in contact:	Remove all contaminated clothes and foo	twear immediately unless stuck to skin.		
			Drench the affected skin with running wate	nch the affected skin with running water for 10 minutes or longer if substance is still		
			on skin. Transfer to hospital if there are burns or symptoms of poisoning.			
	E	ye contact:	Bathe the eye with running water for 15 m	inutes. Transfer to hospital for specialist		
			examination.			
		Ingestion:	Wash out mouth with water. Do not induce	e vomiting. Give 1 cup of water to drink every	10	
			minutes. If unconscious, check for breathing	ng and apply artificial respiration if necessary	<i>'</i> .	
			If unconscious and breathing is OK, place	in the recovery position. Transfer to hospital		
			as soon as possible.			
		Inhalation:	Remove casualty from exposure ensuring	one's own safety whilst doing so. If		
			unconscious and breathing is OK, place ir	the recovery position. If conscious, ensure		
			the casualty sits or lies down. If breathing	becomes bubbly, have the casualty sit and		
			provide oxygen if available. Transfer to he	spital as soon as possible.		
	4.2. Most important symptoms and effects, both acute and delayed					
	Sk	in contact:	Blistering may occur. Progressive ulcerati	on will occur if treatment is not immediate.		
	E	ye contact:	Corneal burns may occur. May cause per	manent damage.		
		Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be				
			bleeding from the mouth or nose.			
		Inhalation:	There may be shortness of breath with a b	ourning sensation in the throat. Exposure may	/	
			cause coughing or wheezing.			
	Delayed / immedia	ate effects:	Immediate effects can be expected after s	short-term exposure.		
	4.3. Indication of an	ny immediat	e medical attention and special treatmen	nt needed		
	Immediate / special	treatment:	Eye bathing equipment should be availab	le on the premises.		
S	ection 5: Fire-fight	ing measu	es			
Γ	5.1. Extinguishing r	nedia				
			•			
	Extinguish	ing media:		unding fire should be used. Use water spray		
				vder or water jet. Fight larger fires with water j	et	
			or alcohol-resistant foam.			

### 5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

### FEHLINGS REAGENT N. 2

## Page: 4 5.3. Advice for fire-fighters Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. 6.3. Methods and material for containment and cleaning up Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. 6.4. Reference to other sections Reference to other sections: Refer to section 8 of SDS. Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. 7.3. Specific end use(s) Specific end use(s): Apart from uses mentioned in section 1.2 no other specific uses are stipulated. Section 8: Exposure controls/personal protection 8.1. Control parameters Hazardous ingredients:

SODIUM HYDROXIDE

### FEHLINGS REAGENT N. 2

### **Page:** 5

State 8 h	our TWA	15 min. STEL	8 hour TWA	15 min. STEL		
UK	-	2 mg/m3	-			
/PNEC Values						
DNEL / PI	NEC No data av	ailable.				
xposure controls						
Engineering measu	res: Ensure the	re is sufficient ventilation of th	e area. Handle in accorda	nce with good		
		Ensure there is sufficient ventilation of the area. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of				
	workday.	, g				
Respiratory protect	-	ned breathing apparatus mus	t be available in case of em	nergency. Where risk		
		Self-contained breathing apparatus must be available in case of emergency. Where risk assessment shows air-purifying respirators are appropriate use a full face respirator				
		with multi purpose combination (US) or type AXBEK (EN14387 respirator cartridges as a				
		back up to engineering controls.				
Hand protect		Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal				
	technique (	technique (without touching the gloves outer surface) to avoid skin contact with this				
	product. Di	product. Dispose of contaminated gloves after use.				
	Wash and	Wash and dry hands. Impermeable gloves. Full contact				
	Material: N	Material: Nitrile rubber				
	Minimum la	Minimum layer thickness: 0.11 mm				
	Break throu	Break through time: 480 min				
	Material tes	Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact				
	Material: N	Material: Nitrile rubber				
	Minimum la	Minimum layer thickness: 0.11 mm				
	Break throu	Break through time: 480 min				
	Material tes	Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)				
Eye protect	ion: Tightly fittir	Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye				
	protection t	protection tested and approved under appropriate government standards such as				
	NIOSH (US	NIOSH (US) or EN166(EU). Ensure eye bath is to hand.				
Skin protect	ion: The type of	The type of protective equipment must be selected according to the concentration and				
	amount of t	the dangerous substance at tl	ne specific workplace. Impe	ermeable protective		
	clothing.					
9: Physical and ch	emical proper	ties				

### 9.1. Information on basic physical and chemical properties

State: Liquid Colour: Colourless

Evaporation rate: No data available.

Oxidising: No data available.

FEHLINGS REAGENT N. 2

	No data ava	Solubility in water:
	No data ava	Viscosity:
Melting point/range°C: No data available.	No data ava	Boiling point/range°C:
upper: No data available.	No data ava	Flammability limits %: lower:
Part.coeff. n-octanol/water: No data available.	No data ava	Flash point°C:
Vapour pressure: No data available.	No data ava	Autoflammability°C:
<b>pH:</b> No data available.	No data ava	Relative density:
	No data ava	VOC g/l:

9.2. Other information

Other information: No data available.

### Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

### **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes.

### **Section 11: Toxicological information**

### 11.1. Information on toxicological effects

### Hazardous ingredients:

#### SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

Page: 6

### FEHLINGS REAGENT N. 2

#### **Relevant effects for mixture:**

Effect	Route	Basis	
Corrosivity	OPT INH DRM	Hazardous: calculated	

#### Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

### Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

### 12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

### Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Section 14: Transport information

14.1. UN number

UN number: UN1824

### FEHLINGS REAGENT N. 2

	Page:
14.2. UN proper shipping name	
Shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(e	s)
Transport class:	8
14.4. Packing group	
Packing group:	II
14.5. Environmental hazards	
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for u	ser
Special precautions:	No special precautions.
Tunnel code:	E
Transport category:	2
Section 15: Regulatory inform	ation
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
Specific regulations:	Not applicable.
15.2. Chemical Safety Assessm	nent
Section 16: Other information	
Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H290: May be corrosive to metals.
	H314: Causes severe skin burns and eye damage.
	R35: Causes severe burns.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product.