

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME HEIDENHAIN'S SOLUTION 2

PRODUCT CODE 64047x

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## 2. HAZARDS IDENTIFICATION

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3)

H226

LABELLING ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

WARNING



Hazard statement(s)

H226 Flammable liquid and vapour

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces — No smoking

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
HAEMATOXYLIN [CI 75920]	208-237-3	517-28-2	0-1%	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H302 H315 H319 H335
7,11b-dihydroindeno[2,1-c]chromene-3,4,6a,9,10(6H)-pentol				
ETHANOL	200-578-6	64-17-5	3-10%	Flam. Liq. 2 H225
METHANOL	200-659-6	67-56-1	<1%	Flam. Liq. 2; Acute Tox. 3; STOT SE 1 H225 H301 H311 H331 H370

## 4. FIRST-AID MEASURES

### INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

### INGESTION

Do not induce vomiting. Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Get medical attention.

### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. Seek medical attention if symptoms occur.

### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if symptoms occur.

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## 5. FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Use: Alcohol-resistant foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

May travel considerable distance to source of ignition and flash back. May form explosive or toxic mixtures with air. Vapour explosion and poison hazard indoors, outdoors and in sewers. Forms harmful carbon oxides on combustion.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing fumes. Ensure adequate ventilation. Evacuate personnel.

### ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop further spillage if possible without risk.

### SPILL CLEAN-UP METHODS

Absorb with sand or vermiculite, and sweep up into bag and hold for hazardous disposal. Avoid creating dust. Ventilate area.

## 7. HANDLING & STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Provide adequate exhaust where vapour or mist is raised.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

### STORAGE CLASS

Chemical storage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	8h TWA		STEL	
ETHANOL	WEL	1000 ppm	1920 mg/m <sup>3</sup>		
METHANOL	WEL (skin)	200 ppm	260 mg/m <sup>3</sup>	250 ppm	333 mg/m <sup>3</sup>

*WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.*

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### PROTECTIVE EQUIPMENT



### HAND PROTECTION

Use protective gloves. The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing is probable.

### RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high vapour levels are likely.

### OTHER PROTECTION

Provide eyewash station.

### HYGIENE MEASURES

**DO NOT SMOKE IN WORK AREA!** Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Brown Liquid
ODOUR	Slight alcoholic
SOLUBILITY / MISCIBLE WITH	Water, Ethanol
SPECIFIC GRAVITY	~0.98 @ 20 °C
FLASH POINT	49 °C
BOILING POINT	93 °C

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## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### INCOMPATIBLE MATERIALS

Bases, Amines, Alkali metals, Metals, Permanganates

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## 11. TOXICOLOGICAL INFORMATION

### INHALATION

May be harmful if inhaled. May cause respiratory tract irritation.

### INGESTION

May be harmful by ingestion.

### SKIN CONTACT

May be harmful by skin absorption. May cause skin irritation.

### EYE CONTACT

May cause eye irritation.

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## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

Dangerous for the environment. Harmful to aquatic life with long lasting effects. Avoid release to the environment.

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## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	1170	3	III	Ethanol Solution
<u>IATA</u>	1170	3	III	Ethanol Solution
<u>IMDG</u>	1170	3	III	Ethanol Solution

### SIGNAGE



### ENVIRONMENTAL HAZARDS

RID / ADR	No
IATA	No
IMDG	No

## 15. REGULATORY INFORMATION

### STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.  
Workplace Exposure Limits EH40/2011.

## 16. OTHER INFORMATION

### GENERAL INFORMATION

This safety data sheet covers all codes for this product.

### REVISION INFORMATION

Revision No.	04
Revision Date	09/2015
Comments	CHIP regulations removed
Replaces Document Generated	11/2013

### HAZARD STATEMENTS IN FULL

H225	Highly Flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H331	Toxic if inhaled
H370	Causes damage to organs