

## SAFETY DATA SHEET KOVACS REAGENT

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

PRODUCT NAME KOVACS REAGENT  
 PRODUCT NO. PL.375  
 SUPPLIER Pro-Lab Diagnostics  
 Unit 7 Westwood Court  
 Clayhill Industrial Estate  
 Neston  
 Cheshire CH64 3UJ  
 Tel: 0151 353 1613  
 Fax: 0151 353 1614  
 mowen@pro-lab.com  
 EMERGENCY TELEPHONE +44 (0)151 353 1613 Monday to Friday 9.00 to 17.00  
 +44 (0)7714 429 646 outside the above hours

### 2 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin.

CLASSIFICATION Xn;R20. Xi;R36/37/38. R10.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
4-(DIMETHYLAMINO)BENZALDEHYDE	202-819-0	100-10-7	5-10%	Xn;R22. Xi;R36/37/38.
HYDROCHLORIC ACID ...%	231-595-7	7647-01-0	10-30%	C;R34 Xi;R37
PENTAN-1-OL		71-41-0	60-100%	Xn;R20. R10.

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move into fresh air and keep at rest. Get medical attention.

#### INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! DO NOT induce vomiting. Get medical attention immediately. Immediately rinse mouth and provide fresh air.

#### SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.

#### SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Be aware of danger for fire to re-start.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

May travel considerable distance to source of ignition and flash back.

#### SPECIFIC HAZARDS

Vapours may be ignited by a spark, a hot surface or an ember. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

#### PROTECTIVE MEASURES IN FIRE

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

### 6 ACCIDENTAL RELEASE MEASURES

# KOVACS REAGENT

## PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

## SPILL CLEAN UP METHODS

Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch spilled material! Remove sources of ignition. Ventilate well. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Static electricity and formation of sparks must be prevented. Avoid eating, drinking and smoking when using the product.

### STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place. Keep in original container. Ground container and transfer equipment to eliminate static electric sparks.

### STORAGE CLASS

Flammable liquid storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT



### RESPIRATORY EQUIPMENT

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Seek advice from supervisor on the companies' respiratory protection standards.

### HAND PROTECTION

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

### EYE PROTECTION

Wear approved safety goggles.

### OTHER PROTECTION

Provide eyewash station.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Light (or pale) Green
ODOUR	Characteristic
SOLUBILITY	Soluble in water.
FLASH POINT (°C)	~ 40°C CC (Closed cup).

## 10 STABILITY AND REACTIVITY

### STABILITY

No particular stability concerns.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

### HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

Harmful by inhalation. Irritating to respiratory system.

# KOVACS REAGENT

**INGESTION**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**SKIN CONTACT**

Irritating to skin.

**EYE CONTACT**

Irritating to eyes.

## 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

The product is not expected to be hazardous to the environment.

## 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

## 14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (PENTAN-1-OL, HYDROCHLORIC ACID ...%)		
UN NO. ROAD	2924	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	HAZARD No. (ADR)	38
ADR LABEL NO.	3 & 8	HAZCHEM CODE	3W
CEFIC TEC(R) NO.	30GFC-III	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	2924
IMDG CLASS	3	IMDG PACK GR.	III
EMS	F-E, S-C	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	2924
AIR CLASS	3	AIR SUB CLASS	8
AIR PACK GR.	III		

## 15 REGULATORY INFORMATION

**LABELLING**



Harmful

**CONTAINS** HYDROCHLORIC ACID 22.7%  
PENTAN-1-OL

**RISK PHRASES**

- R10 Flammable.
- R20 Harmful by inhalation.
- R36/37/38 Irritating to eyes, respiratory system and skin.

**SAFETY PHRASES**

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.

## KOVACS REAGENT

S51	Use only in well-ventilated areas.
S24/25	Avoid contact with skin and eyes.
S60	This material and its container must be disposed of as hazardous waste.

### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

### APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

### GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

REVISION DATE 12-2003

### RISK PHRASES IN FULL

R10	Flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.

### DISCLAIMER

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.