

# SAFETY DATA SHEET

## RNAscope® DAB-B

According to Regulation (EC) No 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**1.1 Product Identifier**

Product Name RNAscope® DAB-B  
Product No 320053

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

Identified uses For Research Use Only. Not for diagnostic use.

**1.3 Details of the supplier of the safety data sheet**

Supplier Advanced Cell Diagnostics  
3960 Point Eden Way  
Hayward, CA 94545  
Tel: (510) 576-8800

### SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

Classification (EC 1272/2008)

Physical and Chemical	Not classified
Human health	Acute Tox. 4, Eye Irrit. 2, Muta. 2, Carc 1B
Environment	Not classified

Classification (1999/45/EEC)

Carc. Cat 1, R45. Muta. Cat. 3, R68

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**2.2 Label elements**

Contains 3,3' diaminobenzidine

Label In Accordance with (EC) No. 1272/2008



Signal Word Danger

Hazard Statements H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H341 Suspected of causing genetic defects.  
H350 May cause cancer

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

Supplementary Precautionary Statements  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P270 Do not eat, drink or smoke when handling this product.  
P264 Wash skin thoroughly after handling.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do  
P301+P310+P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth  
P308+p313 If exposed or concerned: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice.

**2.3 Other Hazards**

Not classified as PBT/vPvB by current EU criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

3,3' - diaminobenzidine	<10%
CAS-No: 7411-49-6	EC No.: 231-018-9
Classification (EC 1272/2008) Acute Tox. 4 H302 Eye Irrit. 2 H319 Muta. 2 H341 Carc. 1B H350	Classification (67/548/EEC)

The full test for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID AND MEASURES****4.1 Description of first aid measures****Inhalation**

Remove to fresh air. Obtain medical attention.

**Ingestion**

Do not induce vomiting. If person is conscious, wash out mouth with water. Obtain medical attention.

**Skin Contact**

Wash thoroughly with water for at least 15 minutes. Obtain medical attention

**Eye Contact**

Wash thoroughly with water for at least 15 minutes. Obtain medical attention.

**4.2 Most important symptoms and effects, both acute and delayed****General information**

No specific information

**4.3 Indication of any immediate medical attention and special treatment needed.**

Treat Symptomatically.

**SECTION 5: FIRE FIGHTING MEASURES****5.1 Extinguishing Media****Extinguishing Media**

Extinguish with water spray, alcohol – resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

No special hazards.

**5.3 Advice for fire fighters****Special Fire Fighting Procedures**

No special procedures required.

**Protective equipment for fire fighters**

Use respirator. Toxic gases can be evolved.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

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

**6.2 Environmental Precautions**

Do not discharge into drains, water courses or onto the ground.

**6.3 Methods and material for containment and cleaning up**

Collect on absorbent material and dispose of in accordance with federal, state, and local environmental control regulations.

**6.4 Reference to other sections**

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

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Use only with adequate ventilation. Wear eye protection and compatible chemical-resistant glove

## RNAscope® DAB-B

### 7.2 Conditions for safe storage, including any incompatibilities

Store in refrigerator.

### 7.3 Specific end user(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Ingredient Comments

No exposure limits noted for ingredient(s).

### 8.2 Exposure controls

Protective equipment



#### Engineering measures

Use enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

#### Respiratory Equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

#### Hand Protection

Use compatible chemical-resistant gloves.

#### Eye Protection

If risk of splashing, wear approved safety goggles or face shield.

#### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### Hygiene measures

Use appropriate skin cream to prevent drying of skin. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using, do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance                      Brown Liquid

### 9.2 Other information

Not determined

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Carbon monoxide, carbon dioxide, nitrogen oxides

### 10.4 Conditions to avoid

Avoid direct sunlight.

### 10.5 Incompatible Materials

#### Materials to avoid

Strong oxidizing substances.

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Toxicological information**

**Acute toxicity**

No data available

**Serious eye damage eye irritation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available, may cause congenital malformation in the fetus.

**Acute effect**

May cause skin irritation, mucus membrane irritation. May be harmful if swallowed, inhaled or absorbed through the skin.

**Chronic effects**

Not determined

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Not regarded as dangerous for the environment.

**12.1 Toxicity**

**Acute Fish Toxicity**

No data available.

**12.2 Persistence and degradability**

**Degradability**

No data available

**12.3 Bioaccumulative potential**

**Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

**Mobility**

No data available

**12.5 Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**12.6 Other adverse effects**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General Information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority

**13.1 Waste treatment methods**

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

**SECTION 14: TRANSPORT INFORMATION**

Road Transport Notes	Not classified
Rail Transport Notes	Not classified
Sea Transport Notes	Not classified
Air Transport Notes	Not classified

**14.1 UN Number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

14.4 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

---

**SECTION 15: REGULATORY INFORMATION**

---

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Environmental Listing**

Rivers (Prevention of Pollution) Act of 1961. Control of Pollution (Special Waste Regulations) Act of 1980.

**Approved Code of Practice**

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

**Guidance Notes**

Workplace Exposure Limits EH40. CHIP HSG(108).

**EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

---

**SECTION 16: OTHER INFORMATION**

---

SDS No.	Version 01
Date	June 2015

Risk Phrases In Full

R36	Irritating to eyes
R45	May cause cancer
R68	Possible risk of irreversible effects

Hazard Statements In Full

H350	May cause cancer.
H341	Suspected of causing genetic defects.
H319	Causes serious eye irritation
H302	Harmful if swallowed

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use