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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<b>Name of product</b>	US IVD HCCA Portioned Art. No. 8604531
<b>Name of substance</b>	2-Cyano-3-(4-hydroxyphenyl)acrylic acid (HCCA)
<b>EC No</b>	248-879-1
<b>CAS No</b>	28166-41-8

### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Laboratory chemical

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

<b>Manufacturer/distributor</b>	Bruker Daltonik GmbH Fahrenheitstr. 4, D-28359 Bremen Phone +49(421)2205-0, Fax +49(421)2205-100 E-Mail care@bruker.com Internet www.bruker.com
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<b>Advice</b>	Bruker Daltonik GmbH Phone +49(421)2205-0 E-mail (competent person): care@bruker.com
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<b>1.4. Emergency telephone number</b>	Emergency CONTACT (24-Hour-Number):
<b>Emergency advice</b>	GBK GmbH +49 (0)6132-84463

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H335	

#### Hazard statements for health hazards

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

### 2.2. Label elements



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**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS07

**Signal word**  
Warning

**Hazard statements for health hazards**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary Statements**

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P312 Call a POISON CENTER/doctor/.../if you feel unwell.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to a licensed disposal company.

**2.3. Other hazards**

No information available.

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**SECTION 3: Composition/ information on ingredients**

**3.1. Substances**

**Description**

natural substance

**CAS No 28166-41-8**

**2-Cyano-3-(4-hydroxyphenyl)acrylic acid (HCCA)**

EC No 248-879-1

**3.2. Mixtures**

not applicable

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove moisted clothing immediately.  
In the event of persistent symptoms receive medical treatment.

**In case of inhalation**

Ensure of fresh air.  
In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.



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**In case of eye contact**

In case of contact with eyes rinse thoroughly with water.

Remove contact lenses

Refer to medical treatment.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

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

No information available.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

Full water jet

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

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Hydrogen cyanide (HCN)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Ensure adequate ventilation.

Remove persons to safety.

Avoid dust formation.

Use personal protective clothing.

Do not breathe dust.



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### 6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

### 6.3. Methods and material for containment and cleaning up

Avoid dust formation.

Send in suitable containers for recovery or disposal.

After taking up the material dispose according to regulation.

Take up mechanically.

### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid the formation and deposition of dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

The product should be handled with the care usual when dealing with chemicals.

#### General protective measures

Avoid contact with eyes and skin

Do not inhale dust.

#### Hygiene measures

Clean skin thoroughly after working.

Provide washing facilities at place of work.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Keep separated from food and feed.

#### Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

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

#### Requirements for storage rooms and vessels

Keep in closed original container.

#### Further information on storage conditions

Keep container tightly closed and store at cool and dry place.

Protect from light..

Keep container in a well-ventilated place

Protect from exposure to air/oxygen.

**Storage group** 13

### 7.3. Specific end use(s)

No information available.



**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**Respiratory protection**

For concentrations above the application limit of filter devices or at oxygen concentrations below 17 Vol% or under unclear conditions, use an insulating device.

Multi-purpose filter ABEK / P2

Short term: filter apparatus, Filter P1

**Hand protection**

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

The selected protective gloves have to meet the specifications of EU Directive 89/686 / EEC and the resultant standard EN374.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile, 0,1 mm, 480 min. e.g. "Dermatril L" (KCL GmbH, Eichenzell (Germany); Email: Vertrieb@kcl.de).

**Eye protection**

safety goggles with side protection

**Other protection measures**

Impermeable protective clothing

**Appropriate engineering controls**

Ensure good interior ventilation, if necessary exhaustion at the workplace.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

solid

**Colour**

yellow

**Odour**

No information available.

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>Boiling temperature / boiling range</b>	not determined				
<b>melting range</b>	245 - 250 °C				
<b>Flash point</b>					Not flammable.
<b>Vapourisation rate</b>	not determined				

Safety Data Sheet according to Regulation (EC)

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	Value	Temperature	at	Method	Remark
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	not determined				
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				
<b>Solids content</b>	100 %				

**Oxidising properties**

No information available.

**Explosive properties**

The product is not explosive.

**9.2. Other information**

No information available.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Reactions with strong acids.

Reacts with acid anhydrides.



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**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

**Substances to avoid**

acid anhydrides

Acid

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	No sensitizing effects known.			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Carcinogenicity</b>				No indications of possible carcinogenic effects available.

**Specific target organ toxicity (single exposure)**

May cause respiratory irritation.

**Additional information**

The product should be handled with the care usual when dealing with chemicals.

Possibly harmful by inhalation, harmful if swallowed and harmful in contact with skin.

Warning, substance not yet fully tested.

Further hazardous properties can not be excluded.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**



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No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

**General regulation**

Ecological data are not available.

Product is not allowed to be discharged into the ground water or aquatic environment.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Recommendations for the product**

Remove in accordance with local official regulations.

**Recommendations for packaging**

Disposal in accordance with local regulations.

Packaging that cannot be cleaned should be disposed of like the product.

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**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available.

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.





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## SECTION 15: Regulatory information

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

#### National regulations

<b>Water hazard class</b>	3	Manufacturer self-classification. extremely hazardous for water
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### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

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## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

The Substance is NOT listed in: EPA, TLV, NIOSH-Ca, OSHA-Ca, TSCA, List of extremely hazardous substances, List of specific toxic chemicals, Chemicals known to cause cancer.

### Sources of key data used

Data sheets of the sub-supplier.