



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

1.1. Product identifier

Name of product	US IVD HCCA Portioned / US IVD HCCA portioned for MBT Galaxy Art. No. 8604531 / 1852132
Name of substance	2-Cyano-3-(4-hydroxyphenyl)acrylic acid (HCCA)
EC No	248-879-1
CAS No	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

Manufacturer/distributor	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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Advice	Bruker Daltonik GmbH Phone +49(421)2205-0 E-mail (competent person): care@bruker.com
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1.4. Emergency telephone number	Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463
Emergency advice	

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



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.
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Storage

P405	Store locked up.
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Disposal

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

No information available.

SECTION 3: Composition/ information on ingredients

3.1. Substances

Description

natural substance

CAS No 28166-41-8

EC No 248-879-1

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

3.2. Mixtures

not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove moistened 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.



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.

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_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)
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.

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.



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

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
pH value	not determined				
Boiling temperature / boiling range	not determined				
melting range	245 - 250 °C				
Flash point					Not flammable.
Vapourisation rate	not determined				



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

Oxidising properties

No information available.

Explosive properties

The product is not explosive.

9.2. Other information

No information available.

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.



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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

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

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Carcinogenicity				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.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential



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.

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.

SECTION 14: Transport information

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

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.



SECTION 15: Regulatory information

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

National regulations

Water hazard class	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.

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.