

Benzoic Acid Crystal USP

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Benzoic Acid Crystal USP

Synonyms/Generic Names: Benzene Carboxylic Acid; Carboxybenzene; Dracrylic Acid; Phenyl Carboxylic Acid; Phenylformic Acid

Product Number: 0825

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)
www.columbuschemical.com

In Case of Emergency Call: CHEMTREC – 800-424-9300 or 703-527-3887 (24 Hours/Day, 7Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Combustible dust

Target Organs: Lungs

Signal Words: Danger

Pictograms:



GHS Classification:

Serious eye damage	Category 1
Skin irritation	Category 2
Specific target organ toxicity, repeated exposure	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure
USH001	May form combustible dust concentration in air.

Precautionary Statements:

P260	Do not breathe dust/fume/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

Potential Health Effects

Eyes	Causes serious eye damage.
Inhalation	May be harmful if inhaled. Repeated exposure may cause damage to lungs.
Skin	Causes skin irritation. Repeated or prolonged skin contact may cause allergic reaction with susceptible persons.
Ingestion	Harmful if swallowed. Ingestion may cause irritation.

NFPA Ratings

Health	2
Flammability	1
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	1
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Benzoic Acid	>99	65-85-0	200-618-2	C ₇ H ₆ O ₂	122.12 g/mol

4. FIRST- AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if you feel unwell.
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Wash clothes before reuse. If skin irritation occurs: Get medical advice/attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Use water-spray, alcohol-resistant foam, dry chemical or carbon dioxide. Spray unopened containers with water. Avoid hose strams or any method which will create dust clouds.
Special protective equipment and precautions for firefighters	In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
Specific hazards arising from	Emits toxic fumes (carbon oxides) under fire, combustion or

the chemical	decomposition conditions. (See also Stability and Reactivity section)
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment. Combustible. Use spark-proof and explosion-proof equipment. Avoid dust formation. Ensure adequate ventilation.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Combustible. Use spark-proof and explosion-proof equipment. Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts. Use spark-proof and explosion-proof equipment.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Protect against physical damage. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Controls: Contains no substances with occupational safety exposure limits.

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White solid
Odor	Characteristic
Odor threshold	Not Available
pH	2.8 at 25°C (saturated solution)
Melting point/freezing point	122°C (252°F)
Initial boiling point and boiling range	249°C (480°F) at 760 mm Hg
Flash point	Not Available
Evaporation rate	Not Available
Flammability (solid, gas)	Not flammable may form combustible dust

Upper/lower flammability or explosive limit	Not Available
Vapor pressure	0.0011 hPa at 20°C (68°F)
Vapor density	Not Available
Relative density	1.32 at 20°C (68°F)
Solubility (ies) in water	3.5 g/L at 25°C (77°F)
Partition coefficient: n-octanol/water	1.88
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Excessive heat and ignition sources. Avoid static discharge. Avoid dust formation.
Incompatible Materials	Oxidizers, strong bases, strong reducing agents. Avoid contact with metals.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	LC50 Inhalation – rat – 4 hours - >12.2 mg/l
Ingestion	LD50 Oral – rat – 1,700 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritant, Redness, itching, burning
Eyes	Severe irritant, Redness, itching, burning
Respiratory	Sneezing, coughing
Ingestion	May cause nausea, vomiting, or diarrhea

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Classified
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Causes damage to organs (lungs) through repeated or prolonged exposure.
Reproductive Toxicity	Not Classified
Respiratory/Skin Sensitization	Non-sensitizer

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 – Fish – 44.6 mg/l – 96h
Aquatic Invertebrate	EC50 – Invertebrates - >100 mg/L – 48h
Terrestrial	EC50 – Algae - >33.1 mg/L – 72h

Persistence and Degradability	Readily biodegradable
Bioaccumulative Potential	log K _{ow} - 1.88
Mobility in Soil	Koc/Kow 15.49 (calculated)
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORT INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Massachusetts: Toxic or Hazardous Substance List	Listed
New Jersey: Right to Know Hazardous Substance List	Listed
Pennsylvania: Hazardous Substance List	Listed
Rhode Island: Hazardous Substance List	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard, Chronic Health Hazard, Physical Hazard
SARA 312	Acute Health Hazard, Chronic Health Hazard, Physical Hazard
SARA 313	Not Listed
WHMIS Canada	Class D2B: Poisonous and infectious material – Other effects - Toxic

16. OTHER INFORMATION

Revision	Date
Revision 1	07/12/2011
Revision 2	08/05/2013
Revision 3	07/19/2017
Revision 4	03/24/2021

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