

# SAFETY DATA SHEET

#### **SECTION I - IDENTIFICATION**

PRODUCT NAME:	Benzoic acid	
CAS #:	65-85-0	
Manufacturer's Name:	CHEM-IS-TRY, INC.	
Address:	160-4 LIBERTY ST.	
	METUCHEN, NJ 08840	
Telephone #:	(732) 372- 7311	Secondary Telephone No: CHEMTREC
FAX #:	(732) 372- 7312	(800) 424-9300
		24 Hours a Day

**Relevant identified uses of the substance or mixture and uses advised against** Identified uses: Laboratory chemicals, synthesis of substances

#### **SECTION II - HAZARDS IDENTIFICATION**

#### **Classification of the substance or mixture**

Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Lungs, H372 Short-term (acute) aquatic hazard (Category 3), H402

#### GHS Label elements, including precautionary statements

Pictogram

Signal word

Danger

#### Hazard statement(s)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H372	Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
H402	Harmful to aquatic life.

# **Precautionary statement(s)**

P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. Immediately
	call a POISON CENTER/ doctor.
P314	Get medical advice/ attention if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

# SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Molecular Weight: 122.12 g/mol

CAS-No.: 65-85-0

EC-No.: 200-618-2

COMPONENT	CLASSIFICATION	CONCENTRATION
BENZOIC ACID	Skin Irrit. 2; Eye Dam. 1; STOT RE	<= 100%
	1; Aquatic Acute 3; H315, H318,	
	H372, H402	

For the full text of the H-Statements mentioned in this Section, see Section XVI.

# **SECTION IV - FIRST AID MEASURES**

#### Description of first aid measures

**General advice**, Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled, move person into fresh air. If not breathing, give artificial respiration.

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

In case of eye contact, flush eyes with water as a precaution.

If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water.

#### Most important symptoms and effects, both acute and delayed.

The most important known symptoms and effects are described in the labelling (see section II) and/or in section XI.

# Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION V - FIREFIGHTING MEASURES**

#### **Extinguishing media**

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Special hazards arising from the substance or mixture** Carbon oxides.

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

No data available

# **SECTION VI - ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section VIII.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **Reference to other sections**

For disposal see section XIII.

# SECTION VII - HANDLING AND STORAGE

Precautions for safe handling Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section II.

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

#### Specific end use(s)

Apart from the uses mentioned in section II, no other specific uses are stipulated.

# SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Workers effects	Inhalation	Long-term local effects	0.1 mg/m3
Workers	Inhalation	Long-term systemic effects	3 mg/m3
Workers	Skin contact	Long-term systemic	62.5mg/kg BW/d

### Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	0.151 mg/kg
Sea sediment	0.175 mg/kg
Fresh water sediment	1.75 mg/kg
Sewage treatment plant	100 mg/l
Aquatic intermittent release	0.331 mg/l

#### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Control of environmental exposure**

Do not let product enter drains.

# **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

a) Appearance:	Form: crystalline Color: white	
b) Odor:	No data available	
c) Odor Threshold:	No data available	
d) pH:	2.5 - 3.5 at 20 °C (68 °F)	
e) Melting point/freezing point:	Melting point/range: 121 - 125 °C (250 - 257 °F) - lit	
f) Initial boiling point and boiling range:	249 °C 480 °F - lit.	
g) Flash point:	121 °C (250 °F) - closed cup	
h) Evaporation rate:	No data available	
i) Flammability (solid, gas):	No data available	
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j) Upper/lower flammability or	No data available
explosive limits:	
k) Vapor pressure:	13 hPa at 132 °C (270 °F)
l) Vapor density:	4.22 - (Air = 1.0)
m) Relative density:	1.320 g/cm3 at 20 °C (68 °F)
n) Water solubility:	2.9 g/l at 25 °C (77 °F)
o) Partition coefficient: n-octanol/water	log Pow: 1.88
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available
Other safety information	
Relative vapor density:	4.22 – (Air = 1.0)

# **SECTION X - STABILITY AND REACTIVITY**

# Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

# **Conditions to avoid** No data available

**Incompatible materials** Strong oxidizing agents

# Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section V.

# SECTION XI - TOXICOLOGICAL INFORMATION

Information on toxicological effects

# Acute toxicity

LD50 Oral - Mouse - male and female - 2,250 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 12.2 mg/l Remarks: (ECHA) LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg Remarks: (ECHA) No data available

# Skin corrosion/irritation

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

# Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive - 21 Days (Directive 67/548/EEC, Annex V, B.5.) (Regulation (EC) No 1272/2008, Annex VI)

# Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result: negative Remarks: (ECHA)

#### Germ cell mutagenicity

Mutagenicity (mammal cell test): chromosome aberration. Chinese hamster fibroblasts Result: Positive results were obtained in some in vitro tests. (ECHA) Micronucleus test mouse lymphoma cells Result: negative

#### Carcinogenicity

IARC:	No component 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 component 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 component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

# **Reproductive toxicity**

no data available

# Specific target organ toxicity - single exposure

No data available Acute oral toxicity - Nausea, Vomiting, Irritation of mucous membranes Acute inhalation toxicity - Cough, Possible damages, mucosal irritations

# Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure. - Lungs Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

# Aspiration hazard

No data available

# Additional Information

Repeated dose toxicity - Rat - male and female - inhalation (dust/mist/fume) - 28 Days Repeated dose toxicity - Rabbit - male and female - Dermal - 21 Days - NOAEL (No observed adverse effect level) - > 2,500 mg/kg RTECS: DG0875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION XII - ECOLOGICAL INFORMATION**

<b>Toxicity</b> Toxicity to fish	static test LC50 - Lepomis macrochirus - 44.6 mg/l - 96 h (US-EPA)	
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (US-EPA)	
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata - > 33.1 mg/l - 72 h (OECD Test Guideline 201)	
Toxicity to bacteria	static test IC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209) microtox test EC50 - Photobacterium phosphoreum - 17 mg/l - 30 min Remarks: (Lit.)	
Persistence and degradability		
Biodegradability	anaerobic - Exposure time 35 d Result: 89.5 % - Biodegradable (OECD Test Guideline 311)	

# **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

# **Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. No data available

# **SECTION XIII - DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

#### **Contaminated packaging**

Dispose of as unused product.

# **SECTION XIV - TRANSPORT INFORMATION**

#### DOT (US)

UN number: 3077Class: 9Packing group: IIIProper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzoic acid)Reportable Quantity (RQ): 5000 lbs Poison Inhalation Hazard: No

IMDG Not dangerous goods

IATA Not dangerous goods

#### **SECTION XV - REGULATORY INFORMATION**

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

# California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### **SECTION XVI - OTHER INFORMATION**

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