



Material Safety Data Sheet


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Section 1 - Product and Company Identification

Product name : Benzoic Acid
Other names : Phenyl Carboxylic ; Phenylformic Acid ; Benzenecarboxylic Acid;Salvo Liquid ; TENN-PLAS
Product use : Use as food preservative , make -up products, dye, plastic and insect repellents.
Supplier's name : San Fu Chemical Co., Ltd., Shan Hua Plant
Supplier's address : 340 Hsiao Hsin Li, Shan Hua Town, Tainan Hsien, Taiwan, R.O.C.
Supplier's phone : 06-5837608 Emergency phone : 06-5837608
FAX. : 06-5839498

Section 2 - Hazards Identification

Classification : <ol style="list-style-type: none">1. Acute Toxicity Category 4 (inhalation)2. Acute Toxicity Category 4 (ingestion)3. Skin Corrosion/ irritation Category 24. Serious eye damage/ irritation Category 2A5. Specific target organ systemic toxicity – Single exposure
The Most Important Hazards and effect Label element : <ul style="list-style-type: none">■ Hazard symbol : Exclamation mark  <ul style="list-style-type: none">■ Signal word : Danger
Hazard statement : <ol style="list-style-type: none">1. Harmful while swallow2. Harmful with skin contact3. Cause skin irritaion4. Cause severe eye irritation5. May cause respiratory tract irritation
Precautionary statement : <ol style="list-style-type: none">1. Keep good hygiene in the working area. If swallowed, seek the medical attention immediately.2. Avoid contact with eyes and skin.3. If contacted, wash with large amount of water then seek the medical attention immediately.4. Use proper protective clothing, impervious glove, safety goggles, respiratory protective equipments.
Others Hazard : /

Section 3 - Composition/Information On Ingredients

Pure Substance :

Chemical name : Benzoic Acid



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Synonyms : Phenyl Carboxylic;Phenylformic Acid;Benzenecarboxylic Acid;Salvo
Liquid;TENN-PLAS

CAS No. : 00065-85-0

Ingredient contributing to the hazard(%) : 99%

Section 4 - First Aid Measures

The First-aid Information :

■ Inhalation :

1. Move to an air-circulated place
2. If uncomfortable occurs, seek medical attention immediately.

■ Skin Contact :

1. Take out the contaminated cloth, shoes and leather product (such like belts).
2. Carefully absorb or eliminate the chemicals. Wash the contaminated area with gentle water.

■ Eye Contact :

1. In case of contact, immediately flush eyes with gentle water and keep eyelid apart.
Avoid the sewage touch the unaffected eye.

2. If irritation occurs, seek medical attention immediately.

■ Ingestion :

1. If the patient lost of consciousness or cramp, don't give any food.
2. If the patient swallowed, drink large amount of water.
3. Seek medical attention immediately.

The Most Important Symptoms and Hazardous Effects :

1. May cause allergic redness, feeling of burn, itchy or asthma while skin contact or ingestion.
2. May cause Anaphylactic shock, severe cough, narrow chest, dyspnea, cramp, collapse and death in the severe condition.

Protection of First-aiders : Always use proper personal protective equipment (PPE) when doing the first aid.

Notes to a Physician : --

Section 5 - Fire Fighting Measures

Extinguishing Media : Water, chemical powder, CO₂, alcoholic foam and polymerizational foam.

Specific Hazards when Fire-fight : Flammable substance. May generate the dangerous gas or vapor in the fire accident.

Specific Fire-fighting Procedure :

1. Cool tanks or containers with water.
2. Wash the leakage outside the exposure area with water.
3. If the Benzoic Acid in the scene of the fire, use the water as the mist.
4. Stay away while applying the water.

Specific Protection of Firefighters : Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated and pressure gauge.

Section 6 - Accidental Release Measures

Personal Precautions :



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<ol style="list-style-type: none"> 1. Wear proper personal protective equipments. 2. Do no contact the leakage. 3. Only the trained staff to discharge the cleaning and tranfering.
Environmental Precautions : <ol style="list-style-type: none"> 1. Restrict access the area until completion of clean up. 2. Do not drain into sewer or closed area. 3. Extinguish or eliminate all the source of ignition. 4. Keep the contaminated area well ventilated.
Methods for Cleaning up : <ol style="list-style-type: none"> 1. Absorb or cover with Dry sand, soil or other non-combustible material. 2. Small spill: Absorb with non-combustible material and place in the container with label and cover. 3. Large spill: refer to the emergency service unit and supplier.

Section 7 - Handling and Storage

Handling : <ol style="list-style-type: none"> 1. Follow the general substance storage regulation. 2. Isolate with the hazardous substances.
Storage : <ol style="list-style-type: none"> 1. Follow the general substance storage regulation. 2. Keep the storage container tight and closed with dry condition. 3. Maintain the temperature in between of 15~25°C.

Section 8 - Exposure Controls & Personal Protection

Engineering measures : Install the eye washing equipments and shower equipments. Use the proper ventilation equipments and maintain the low concentration in the airborne.			
Control parameters			
TWA	STEL	Ceiling	Biological standards
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Personal protective equipment : <ul style="list-style-type: none"> ■ Respiratory Protection : No specific regulation ■ Hand Protection : Rubber material impervious gloves ■ Eye Protection : Safety goggle, chemical protective goggles, full face shield ■ Skin and Body Protection : Choose the proper protective clothing according to the concentration and the quantity of the hazardous in the environment. Overall protective clothing, working boots. 			
Hygiene measures : Forms the good habit, strictly no drinking or eating in the working area. Need to wash the hands after work done.			

Section 9 - Physical & Chemical Properties

Appearance : solid, powder; white crystal powder	Odor : pleasant smell
Color : Transparent	Melting Point: 249°C
pH value : 2.8(25°C)	Boiling point/boiling range : --



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Flammability: --	Flash point : 121°C
Decomposition temp : --	Test method : closed cup
Auto ignition temp : 532°C	Explosion properties : --
Vapor pressure : 1 mmHg -Psig	Vapor density : --
Density : 1.321 g/ cm ³ (20°C)	Solubility : 100g water dissolve 0.81g (20°C)
log Kow : /	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : Stable in the normal condition
Possible hazardous reactions under specific conditions : No reaction
Conditions to avoid : Higher than the melting point
Materials to avoid : Strong oxidizers
Hazardous decomposition products : <ol style="list-style-type: none">1. Strong base: may react2. Strong oxidizer (like THREE ALUMINA) may cause violent reaction or explosion. Increase the risk of the fire accident.

Section 11 - Toxicological Information

Route of exposure : Inhalation, skin contact, ingestion, eyes.
Symptoms : <ol style="list-style-type: none">1. Skin contact or ingestion cause allergy: redness, feeling of burn, itchy or asthma.2. Cause anaphylactic shock, server coughing, chest restriction, dyspnea, cramp, prostration and death.
Immediate Toxicity : <ol style="list-style-type: none">1. Skin : 0.25% May cause non-allergic beehive responds within 30 minutes (redness, stripe-like bulge, burning feel, itchy)2. Inhalation : Cause nose, throat and upper respiratory tract irritation.3. Eye : Cause severe eye irritation4. Ingestion : Stomachache, nausea, vomit<ul style="list-style-type: none">● LD₅₀: (oral , rat) : 1700 mg/Kg● LC₅₀: (inhalation , rat) : 26000 mg/l/hr
Specific effects : special symptoms in the animal experiences: eye irritation test(rabit): sever irritation. Skin irritation test (rabit): mild irritation.

Section 12 - Ecological Information

Ecotoxicology : -- <ul style="list-style-type: none">■ LC₅₀(fish) : --■ EC₅₀(Aquatic Invertebrates) : --■ Bioconcentration factor (BCF) : --
Persistence and degradability : --



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■ Half-Life (Air) : --
■ Half-Life (Water surface) : --
■ Half-Life (Groundwater) : --
■ Half-Life (Soil) : --
Bioaccumulative potential : --
Mobility in soil :
Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal :
1. Follow the current laws and regulations
2. Incinerate or burry in the prooved landfill.

Section 14 - MSDS Transport Information

UN classification number : /
Proper D.O.T Shipping Name : /
Hazard Class : /
Packing Group : /
Marine pollution : --
Specific precautionary transport measures and conditions : --

Section 15 - Regulatory Information

Regulations :
1. Road Traffic Safety Regulations # 84
2. Ships carrying dangerous goods rules
3. Taiwan Railway Administration transporting dangerous goods handling rules

Section 16 - Other Information

Literature references	MSDS database from Merck Index		
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Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.
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