

# PK900

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION				
Manufacturer	Emergency Contact			
Shandong Yanggu Huatai Chemical Co., LTD	Chemtrec:1-800-424-9300 (USA)			
No.217, Qinghexi Road	(1)330-542-8400 (outside USA)			
Yanggu County, Shandong, China 252300				
Trade Name(s): PK 900	Chemical Name: 1,3-Bis(3-methyl-s,5-dioxo-1H-			
	pyrrolinylmethyl)benzene			
Relevant identified uses of the substance or mixture	Application of the substance/the preparation: Anti-			
and uses advised against: No further relevant	reversion agent.			
information available.				
Issued By: Sovereign Chemical Company	Date of Issue: April 15, 2024			
According to 1907/2006/EC (REACH), 1272/2008/EC				
(CLP), and GHS				

# 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

	GHS08 Health hazard STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
A REAL	GHS05 Corrosion Eye Dam. 1	H318 Causes serious eye damage.
	GHS09 Environment Aquatic Acute 1 Aquatic Chronic 1	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
<b>(!)</b>	GHS07 Skin Sens. 1	H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

2.2 Label elements Labeling according to Regulation (EC) No 1272/2008 Hazard pictograms



STOT SE 3

GHS05GHS07GHS08GHS09Signal word:DangerHazard-determining components of labeling:ziram (ISOHazard statementsH318Causes serious eye damage.H317May cause an allergic skin reaction.

H373May cause damage to organs through prolonged or repeated exposure.H410Very toxic to aquatic life with long lasting effects.



Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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 or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with
	local/regional/national/international regulations.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

Chemical Name	CAS No	EC No	Weight %	Classification
1,3-bis(3-methyl-2,5-diox o-1H-pyrrolinylmethyl)be nzene	119462- 56-5	412-570-1	≥85%	STOT RE 2, H373; H318; STOT SE 3, H335, H317; H400, H410
2-Methylenesuccinic	2170-03-8	218-518-2	1.9-2.5%	N/A
anhydride				
Citraconic acid	498-23-7	207-858-7	≤0.1%	N/A
1,3-Benzenedimethanamine	1477-55-0	216-032-5	≤0.1%	N/A

The remaining unspecified ingredients are impurities and are not hazardous.

#### 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

After inhalation

Remove from exposure and move to fresh air immediately.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Do not induce vomiting; call for medical help immediately.

Never give anything by mouth to an unconscious person.

Get medical aid immediately.



4.2 Most important symptoms and effects, both acute and delayed May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed If skin irritation or rash occurs, get medical advice/attention.

# 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

Use extinguishing agents appropriate for surrounding materials. For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device. Wear fully protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Avoid dust formation.
Avoid breathing vapors/mist/gas.
Ensure adequate ventilation

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Do not ingest.



Do not breathe dust. Wear suitable protective clothing. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of dust. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Information about fire and explosion protection: Keep respiratory protective device available. 7.2 Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and receptacles Provide ventilation for receptacles. Store in a cool location. Information about storage in one common storage facility Store away from foodstuffs. Further information about storage conditions Store in cool, dry conditions in well-sealed receptacles. Store receptacle in a well-ventilated area.

Keep container tightly sealed

7.3 Specific end use(s): No further relevant information available.

#### 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see section 7. 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection



Dust protection mask if there is a risk of dust formation.

Protection of hands

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Nitrile rubber, NBR

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

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection



Safety glasses

Body protection: Wear normal working clothing.

Limitation and supervision of exposure into the environment: No further relevant information available. Risk management measures

See Section 7 for additional information.

No further relevant information available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information	<u>.</u>
Appearance	Change in Condition
Form: Powder.	Melting Point/Melting Range: Undetermined.
Color: Off-white.	Boiling Point/Boiling Range: > 280° C
Odor: Not available.	Octanol/Water Partition Coefficient: log Pow = 2.22
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: 5 x 10 <sup>-8</sup> kPa at 25 ° C	Flash point: 257° C (closed cup)
Density at 20 °C: 1.66 g/cm <sup>3</sup> .	Flammability (solid, gaseous): Non-flammable.
Relative density: 1.269.	Ignition temperature: Not self-igniting prior to melting.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: 40.8 mg.L <sup>-1</sup> at	Danger of explosion: Product does not present an
20°C.	explosion hazard.
Viscosity	Explosion limits
Dynamic: Not applicable.	Lower: Not determined.
Kinematic: Not applicable.	Upper: Not determined.

9.2 Other information: No further relevant information available.

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.



10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Incompatible materials. Dust generation Exposure to air Excess to heat

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide. Nitrogen oxides

# 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity Acute toxicity

LD/LC50 values	relevant for classification		
119462-56-5, 1,	3-Bis(3-methyl-s,5-dioxo-1H-pyrrolinylmethyl)benzene		
Oral	LD50	>2000 mg/kg (rat)	
Dermal		>2000 mg/kg (rabbit)	
Inhalative	LC50 Not available.		

Primary irritant effect

On the skin: Not classified.

On the eye: Causes serious eye damage.

Sensitization

May cause an allergic skin reaction.

Germ call mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

STOT – single exposure: Not classified.

STOT – repeated exposure: May cause damage to organs through prolonged or repeated exposure. Aspiration hazard: Not classified.

#### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms.

Acute to	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	0.17 mg.L <sup>-1</sup>	96h	Fish	OECD 203	N/A	N/A
EC50	2.06 mg.L <sup>-1</sup>	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio-accumulative potential: No further relevant information available.



12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13.	DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION				
14.1 UN-Number				
DOT, ADR, IMDG, IATA	UN3077			
14.2 UN proper shipping name				
DOT	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.,			
	(1,3-bis(3-methyl-2,5-dioxo-1H-pyrrolinylmethyl)benzene)			
ADR	3077, ENVIRONMENTALLY HAZRDOUS SUBSTANCE,			
	SOLID, N.O.S. (1,3-bis(3-methyl-2,5-dioxo-1H-			
	pyrrolinylmethyl)benzene)			
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
	(1,3-bis(3-methyl-2,5-dioxo-1H-pyrrolinylmethyl)benzene), MARINE			
ΙΑΤΑ	POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
IATA	(1,3-bis(3-methyl-2,5-dioxo-1H-pyrrolinylmethyl)benzene)			
14.3 Transport hazard class(es)				
DOT, IMDG, IATA				
$\wedge$				
	Class: 9 Miscellaneous dangerous substances and articles.			
	Label: 9			
ADR				
	Class: 9 (M7) Miscellaneous dangerous substances and articles.			
	Label: 9			
14.4 Packing group				
DOT, ADR, IMDG, IATA	III			



# 15. REGULATORY INFORMATION

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

United States (USA)				
SARA Section 355 (extremely hazardous substances)	Substance is not listed.			
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.			
TSCA (Toxic Substances Control Act)	Substance is listed.			
Proposition 65 (California)				
Chemicals known to cause cancer	Substance is not listed.			
Chemicals known to cause reproductive toxicity for females	Substance is not listed.			
Chemicals known to cause reproductive toxicity for males	Substance is not listed.			
Chemicals known to cause developmental toxicity	Substance is not listed.			
Carcinogenic Categories				
EPA (Environmental Protection Agency)	Substance is not listed.			
IARC (International Agency for Research on Cancer)	Substance is not listed.			
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.			
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.			
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.			
Canada				
Canadian Domestic Substances List (DSL)	Substance is listed.			
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.			
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.			

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.