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Material Safety Data Sheet

SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 2,4-Dichlorobenzenediazonium tetrafluoroborate

Company: Suzhou YACOO Science Co., Ltd.

Address: No.128,FangZhou Road,Suzhou Industrial Park,China

Tel: 0512-87182055

Fax: 0512-87182056

SECTION 2: Hazards identification

2.11 Risk categories of GHS

No data available

2.2 GHS label elements, including precautionary statements

No data available

2.3 Physical and chemical hazards

No data available

2.4 Health hazard

No data available

2.5 Environmental Hazards

No data available

SECTION 3: Composition/information on ingredients

Substances Synonyms:2,4-Dichlorobenzenediazonium tetrafluoroborate

Molecular formula: $C_6H_3Cl_2N_2 \cdot BF_4$

Molecular weight:260.81g/mol

CAS No.: 21872-70-8

SECTION 4: First aid measures

4.1 Inhalation

If inhaled, remove victim to fresh air.

4.2 Skin Contact

Remove contaminated clothing and rinse skin thoroughly with soapy water and clean water. If you feel uncomfortable, seek medical attention.

4.3 Eye contact

Separate eyelids and rinse with running water or saline. Seek medical attention immediately.

4.4 Ingestion

Gargle, do not induce vomiting. Seek medical attention immediately.

4.5 Advice for the protection of rescuers

Move the patient to a safe place. Consult your doctor. Show this chemical safety technical specification to the doctor on site.

4.6 Special Note for Doctors

No data available

SECTION 5: Firefighting measures

5.1 Fire extinguishing methods and extinguishing agents

Extinguish fire with water mist, dry powder, foam or carbon dioxide extinguishing agent. Avoid using straight running water to extinguish the fire, which may cause splashing of flammable liquid and spread the fire.

5.2 Particular hazards arising from the substance or mixture

No data available

5.3 Advice to Firefighters

Firefighting personnel should wear breathing apparatus and full body firefighting suit and fight fire upwind.

Move containers from fire to open space if possible.

Containers in the fire site must be evacuated immediately if they are discolored or emit sound from the safety relief device.

Isolate the accident site and prohibit irrelevant personnel from entering.

Receiving and treating fire water to prevent environmental pollution.

SECTION 6: Accidental release measures

6.1 Personnel protective measures, protective equipment and emergency handling procedures
Emergency personnel are advised to wear air-carrying breathing apparatus, antistatic clothes, and rubber oil-resistant gloves.

Do not touch or cross spills.

All equipment used during the operation should be connected to the site.

Cut off the source of leakage as much as possible. Eliminate all ignition sources.

Delimit the warning zone according to the affected area of liquid flow, steam or dust diffusion, and evacuate irrelevant personnel from crosswind or upwind to the safety zone.

6.2 Environmental Protection Measures

Absorb leakage to avoid environmental pollution. Prevent leakage into sewers, surface water and groundwater.

6.3 Methods for storing and removing leaked chemicals and disposal materials used

Small amount of leakage: Collect the leaking liquid in a sealable container as far as possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. Do not flush down the drain.

A large number of leaks: build a embankment or dig a pit to receive. Seal off the drainage pipe. Cover with foam to inhibit evaporation. Transfer to tank car or special collector with explosion-proof pump, recycle or transport to waste disposal site.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures.

Disposal should be carried out in a place with partial ventilation or full ventilation facilities.

Avoid eye to skin contact and steam inhalation.

See Section 8 for personal protection measures.

Keep away from fire, heat source, no smoking in the workplace.

Use explosion-proof ventilation systems and equipment.

If canning is required, the flow rate should be controlled and there should be a grounding device to prevent static accumulation.

Avoid contact with forbidden compounds such as oxidants (see Section 10 for forbidden compounds).

When handling, light loading and unloading should be done to prevent damage to packaging and containers.

An empty container may contain harmful residue.

Wash hands after use and do not eat or drink in the workplace.

Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Store at -20°C away from light

SECTION 8: Exposure controls/personal protection

8.1 Control parameter

Biological limitations:

No data available

Monitoring method:

GBZ/T 160.1 ~ GBZ/T 160.41-2004 Determination of toxic substances in the air of the workplace (series standard) EN 14042 Guide to procedures for assessing exposure to chemical or biological agents in the air of the workplace.

Engineering control:

Work spaces are recommended to be separated from other work spaces.

Closed operation to prevent leakage.

Enhance ventilation.

Set up automatic alarm device and emergency ventilation facilities.

Emergency exit channels and necessary drainage areas shall be set up.

Set up red zone warning lines, warning signs and Chinese warning instructions, and set up a communication alarm system.

Provide safe shower and eye wash facilities

8.2 Personal Protective Equipment

Respiratory system protection

When the concentration in the air exceeds the standard, wear a filter gas mask (half mask). In case of emergency rescue or evacuation, you should wear an air carrying respirator.

Hand protection

Wear rubber oil-resistant gloves.

Eye protection

Wear chemical safety eye protection.

Skin and body protection

Wear permeable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	Shape: Crystalline powder Color: White to reddish
b) Colour	no data available
c) Odour	no data available
d) Melting point/freezing point	no data available
e) Boiling point or initial boiling point and boiling range	no data available
f) Flammability	no data available
g) Lower and upper explosion limit/flammability limit	no data available
h) Flash point	no data available
i) Auto-ignition temperature	no data available
j) Decomposition temperature	no data available
k) pH	no data available
l) Kinematic viscosity	no data available
m) Solubility	no data available
n) Partition coefficient n-octanol/water	no data available
o) Vapour pressure	no data available
p) Density and/or relative density	no data available

- q)Relative vapour density no data available
r)Particle characteristics no data available

SECTION 10: Stability and reactivity

10.1Chemical stability

Stable under normal storage conditions

10.2Possibility of hazardous reactions

No data available.

10.3Conditions to avoid

Electrostatic discharge, heat, humidity, etc

10.4Incompatible materials

No data available.

10.5Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1Information on toxicological effects

Acute toxicity

Oral: no data available

Inhalation: no data available

Dermal: no data available

11.2Skin corrosion/irritation

no data available

11.3Serious eye damage/irritation

no data available

11.4Respiratory or skin sensitization

no data available

11.5Germ cell mutagenicity

no data available

11.6Carcinogenicity

no data available

11.7Reproductive toxicity

no data available

11.8STOT-single exposure

no data available

11.9STOT-repeated exposure

no data available

11.10Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste chemicals:

Recycle as much as possible.

If recycling is not possible, incineration is used for disposal.

This product shall not be disposed of by means of drainage.

13.2 Contaminated Packaging:

Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

13.3 Disposal Precautions:

National and local laws and regulations should be referred to before disposal.

See Section 8 for safety precautions for disposal personnel.

SECTION 14: Transport information

14.1 UN number

UN3261 (For reference only, please verify)

14.2 UN proper shipping name

Organic acid corrosive solids, not otherwise specified (For reference only, please verify)

14.3 Transport hazard class(es)

8 (For reference only, please verify)

14.4 Packaging group

I (For reference only, please verify)

14.5 Packing method

Pack according to manufacturer's recommended method, for example: open steel drum. Ampoule outside ordinary wooden case. Threaded glass bottles, iron lid pressed glass bottles, plastic bottles or metal barrels (cans) outside ordinary wooden cases, etc.

14.6 Marine Pollutants (Yes/No)

no

14.7 Precautions for Transportation

Transport vehicles shall be equipped with fire fighting equipment and leakage emergency treatment equipment of corresponding variety and quantity.

It is strictly prohibited to mix with oxidants and edible chemicals.

The exhaust pipes of vehicles carrying the articles must be equipped with fire retarders.

There should be a grounding chain when the tank (tank) car is used for transportation, and a hole partition can be set in the tank to reduce static electricity generated by shock.

Do not use mechanical equipment or tools that are prone to spark.

In summer, it's best to ship in the morning and evening.

During transportation should prevent exposure to the sun, rain, prevent high temperature.

SECTION 15: Regulatory information

15.1 The following laws, regulations, rules and standards shall provide for the management of the chemical:

Occupational Disease Prevention Law of the People's Republic of China:

Classification List of Occupational Disease Hazard Factors (2015): Not included

Regulations on the Safety Management of Hazardous Chemicals:

List of dangerous Chemicals (2015) : Not included

List of Explosive Prone Hazardous Chemicals (2017) : Not included

List of hazardous chemicals under key supervision:

List of the first and second batch of hazardous chemicals under key supervision: Not included

Measures for the Environmental Management Registration of Hazardous Chemicals (Trial) :

List of key hazardous chemicals for environmental management: not included

Regulations on the Control of Narcotic Drugs and Psychotropic Substances:

List of narcotic drug varieties: not included

Variety list of psychotropic drugs: not included

New environmental management approach for Chemical Substances:

List of Existing Chemical Substances in China (2013): Not included

SECTION 16: OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.