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Material Safety Data Sheet

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: APS-5

Company: Suzhou YACOO Science Co., Ltd.

Address: No.128, Fang Zhou Road, Suzhou Industrial Park, China

Tel: 0512-87182055

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SECTION 2: Hazards identification

2.1 Risk categories of GHS

No data available

2.2 GHS label elements, including precautionary statements

No data available

SECTION 3: Composition/information on ingredients

Substances Synonyms: APS-5

Molecular formula: $C_{21}H_{15}ClNO_4PSNa_2$

Molecular weight: 489.82g/mol

CAS No.: 193884-53-6

SECTION 4: First aid measures

4.1 Description of necessary first aid measures

General advice

Consult your doctor. Present this safety specification to the doctor on site.

Inhalation

If inhaled, remove victim to fresh air.

Skin contact

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

Eye contact

Rinse thoroughly with plenty of water. Consult your doctor.

ingestion

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

4.2 Main symptoms and effects, acute and delayed effects

The most important known symptoms and effects are described in labels (see Section 2.2) and/or Section 11

4.3 Instructions and instructions for prompt medical treatment and required special treatment

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

If necessary, wear self-contained breathing apparatus to fight the fire.

5.4 Further Information

No data available

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

-20°C, keep in dark place

7.3 Specific Uses

No data available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limit

Exposure control

Appropriate technical control

Operate according to industrial health and safety rules. Wash your hands before breaks and at the end of work. Personal protective equipment

Ocular protection

Mask and safety glasses protect eyes with equipment tested and approved by official standards such as NIOSH (USA) or EN 166(EU). Skin protection

Gloves must be checked before use. Remove the gloves properly (do not touch the outer surface of the gloves) and avoid any skin contact with the product. After use, handle contaminated gloves with care in accordance with relevant laws and regulations and valid laboratory procedures and procedures. Clean and blow dry the protective gloves selected for your hands in accordance with the specifications given in Regulation (EU) 2016/425 and the derived en 374 standard.

Body protection

The type of impermeable clothing, flame-retardant anti-static protective clothing and protective equipment must be selected according to the concentration and content of hazardous substances in a particular workplace. Respiratory system protection

If the hazard assessment indicates the need for air purifying gas masks, use full mask Multifunctional Gas Mask (US) or ABEK type (EN 14387) gas mask canisters as alternate engineering controls. If a gas mask is the only way to protect, use a full-mask supply air mask. Respirators use respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposures

Prevent further leaks or spills if safety requires. Keep the product out of the drain.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	Shape: solids Color: White to light yellow
b) Colour	no data available
c) Odour	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Boiling point or initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) High/low flammability or explosive limit	no data available
k) Vapour pressure	no data available
l) Vapor density	no data available
m) Density and/or relative density	no data available
n) Water solubility	no data available
o) N-octanol/water partition coefficient	no data available
p) Spontaneous combustion temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive characteristics	no data available
t) Oxidation	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

It is stable under the recommended storage conditions

10.3 Dangerous reaction

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

11.2 Skin corrosion/irritation

no data available

11.3 Serious eye damage/irritation

no data available

11.4 Respiratory or skin sensitization

no data available

11.5 Germ cell mutagenicity

no data available

11.6 Carcinogenicity

no data available

11.7 Reproductive toxicity

no data available

11.8 STOT-single exposure

no data available

11.9 STOT-repeated exposure

no data available

11.10 Aspiration hazard

no data available

11.11 Additional Information

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 Result evaluation of PBT and vPvB

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste disposal method

product

Recycle if possible. Please consult your local administration. It is recommended that the mixture be dissolved in a flammable solvent and incinerated in a chemical incinerator equipped with a post-combustion and washing device. Comply with all national, regional and local regulations when disposing of waste.

Contaminated package

Discard as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.2 UN proper shipping name

ADR/RID: Non-dangerous goods

IMDG: Non-dangerous goods

IATA: Non-dangerous goods

14.3 Transport hazard class(es)

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.4 Packaging group

ADR/RID: no data available

IMDG: no data available

IATA: no data available

SECTION 15: Regulatory information

Please note that waste disposal should also meet local regulatory requirements. If applicable, the chemical meets the requirements of the Regulations on the Safety Administration of Hazardous Chemicals (adopted by The State Council on December 4, 2013).

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.