



TAIWAN KYLAN CO., LTD

Address:

No. 2. tou-gong 5th Road., tou-lio Yun-lin
Hsien, Taiwan R. O. C 640

Phone: 886-5-5574216

Fax: 886-5-5574231

e-mail: jenten.paint@mas.hinet.net

1. Product and Company Information

Product name : Zinc Flake Paste
Other names : AFA-1288-180 Silver
Recommended Uses and Restrictions on the Use :—
Manufacturer or vendor name · Address and telephone : TAIWAN KYLAN CO., LTD No.2.tou-gong 5th Road., tou-lio Yun-lin Hsien, Taiwan R.O.C 640 Phone: 886-5-5574216 Fax : 886-5-5574231
Emergency Phone : 886-5-5574216

2. Hazards Identification

Hazard Classification : Corrosion / irritation substance Level 3 Serious damage / eye irritation Category Level 2A
Mark Content : 
Warning sign : Warning Hazard warning message : Flammable liquids. Causes mild skin irritation. Cause severe eye irritation.
Precautions : Place container in a well ventilated place. Keep away from heat. Wear goggles/ face mask. If contact with the eyes. Immediately wash with plenty of water.
Other hazards :—

3. INGREDIENTS

Mixture :



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Chemical properties :Stable		
Solid content : 57.3%		
Name of hazardous components	Concentration or concentration range (percentage composition)	CAS NO.
DIACETONE ALCOHOL	21.2%	123-42-2
H2O	21.5%	7732-18-5

4. First aid measures

- Different methods of exposure pathways of aid
- Inhalation :1.The patients were removed out of contaminated area.
2.If breathing has stopped · Apply artificial respiration.If breathing is difficult, give oxygen.
3.Immediate medical attention.
- skin contact :1.Direct contact · Immediately wash with soap and water for 5 minutes or more.
2.Contacts through clothes · Immediately undressed · And wash with soap and water.
3.Immediate medical attention.
- eye contact :1.Rinse immediately with plenty of water for 15 minutes or more.
2.When the upper and lower eyelids are not softened ground.
3.Immediate medical attention.
- Ingestion :1.Never give anything by mouth to an unconscious person.
2.Have conscious victims gargle with water.
3. Have victim drink 240~300ml of water.
4. Immediate medical attention.

The most important symptoms and hazardous effects :Stimulate · High concentrations may result in loss of consciousness · And even death.

Protection of first-aiders :Wear protective gloves · Avoid exposure to pollutants.

On the instructions of the physician :If swallowed, consider gastric lavage and activated carbon.



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5. Fire-fighting measures

Suitable extinguishing :Carbon dioxide · Dry chemical · Alcoholfoam °
Special hazardsmaybe encountered whenfighting : 1 .Veryhighly flammable, easy toignite the materialat room temperature. 2 .Vaporis heavier than air, willspreadto distant,the source may cause a firetempering. 3 .Burning mayreleasetoxic gases. 4 .Mayaccumulate in a confined space, causing toxicity andflammabilityhazard. 5 .Concentratedaqueous solutionalsoflammable. 6 .Intenseheatsealed containermayexplode.
Special fire fighting procedures : —
Special protective equipmentfor fire-fighters : Firefightersmust wear air respirators · Firefightingprotectiveclothingandgloves.

6. Accidental Release Measures

Personal precautions : 1 .Restrict access toarea until completionof clean up. 2 .Determinedby thetrainedpersonnelresponsible forthe cleanup. 3 .Wear appropriate personalprotective equipment.
Environmental Considerations : 1 .Ventilatethearea. 2 .Extinguish orremove allignitionsources. 3 .Governmentreportsrelated tohealth and safetyand environmental protectionunit.
Clean-upmethods : 1 .Do not touch theleakedmaterial. 2 .Avoidspillsintosewers orconfinedspaces. 3 .Try to preventor reducespillagein thesecurity clearancestatus. 4 .Sand,dirtor othersubstancesreactwith theleaktosucktheabsorbing materialsfills. 5 .Small spills:will not react withthe spillabsorbent materialContaminatedabsorbentmaterial andhas the samehazardousspills · Shall beplaced in appropriatecontainerssealedand labeled, flushspillarea.A small amount ofleakage can bediluted withplenty ofwater. 6 .Large leak: Contact firefighting, emergencyunitsand suppliersto seekassistance.



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7. Handling and Storage

Handle :

1. This substance is flammable and toxic liquids, disposal and use of engineering controls should be personal protective equipment; staff should be trained appropriately dangerous substances and methods relating to the safe use of the subject.
2. Remove all ignition sources and away from heat and incompatible materials.
3. Work areas should have a "No Smoking" signs.
4. Liquid will accumulate charge, consider additional design to increase conductivity. If all tanks, transfer containers and pipelines should be grounded and must come into contact with bare metal, transport operation, the flow rates should be reduced to increase the operating time, increase the time the liquid left in the pipeline or low temperature operation.
5. When the operation is not carried out in a closed system, make sure the deployment container and receiving equipment and containers to transport equipment potential connection.
6. Empty tanks, containers and pipes may still contain hazardous residues, and not engage in any cleanup before welding, cutting, drilling or other hot work.
7. Tanks or storage containers can be filled with an inert gas to reduce the risk of fire and explosion.
8. Workplace using non-sparking ventilation systems, equipment should be explosion-proof.
9. Keeping walkways and exits unimpeded.
10. A large storage area and regional operations, consider installing spill and fire detection systems and automatic fire extinguishing system appropriate or adequate emergency equipment.
11. Job avoid mist or vapor, in well-ventilated areas designated in the smallest amount used to make the operation area and separate storage area.
12. When necessary to wear appropriate personal protective equipment to avoid contact with this chemical equipment or contaminated.
13. Do not use with incompatible materials (such as the strong oxidant) to avoid increasing the risk of fire and explosion.
14. Use a compatible storage containers made of material, be careful not to spray out when packing.
15. Do not use air or an inert gas pressurized liquid from the container and conveying it.
16. Unless the area is fire-resistant structural isolation, do not be deployed in storage area.



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- 17. Use approved flammable liquid storage containers and deployment of equipment.
- 18. Do not use contaminated liquid back into the original storage container.
- 19. Containers should be marked, maintained close when not in use and avoid damage.
- 20. Store in a cool, dry, well-ventilated and out of direct sunlight place, away from heat, ignition sources and incompatible materials.
- 21. Storage equipment should be constructed of refractories.
- 22. The floor should be impermeable materials to prevent floor absorption.
- 23. Doorsills or a slope or dig trenches so spills can be discharged to a safe place.

stockpile :

- 1. Storage areas should be clearly marked, free of obstacles and allow you to specify for trained personnel.
- 2. Storage area and work areas should be separated; away from elevators, building, room, or exit the main channel storage.
- 3. There should be appropriate extinguishing agents and equipment to clean up the spill near the storage area.
- 4. Check containers regularly for damage or leaks.
- 5. Check that all new containers are properly labeled and without damage.
- 6. Limited storage.
- 7. Made of compatible materials storage containers spills.
- 8. Ground storage tanks and connect with other devices such as potential.
- 9. Storage of flammable liquid should be installed for all buckets and vacuum relief valve relief valve.
- 10. The proposal by the chemical manufacturer or supplier storage temperature storage, temperature detector can be installed if necessary alarm to alert if the temperature is too high or too low.
- 11. Avoid a lot of storage in the room, as stored in isolated fireproof buildings.
- 12. Exhaust pipes of tanks should be installed flame arrester.
- 13. Groundsumptank shall be, at the bottom of the whole area should be sealed to prevent leakage around the entire capacity shall be capable of spill containment dike.

8. Exposure prophylaxis

Engineering Controls : Local exhaust ventilation device or as a whole.

Control parameters



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TWA	TLV-STEL	CEILING	BEIs
—	—	—	—
Personal Protective Equipment : <ul style="list-style-type: none"> ● Below 3000ppm: Dynamical type with organic vapor cartridges or chemical full-type respiratory protective equipments, mask with organic vapor cartridges, portable full-type or air-feed type respiratory protective equipments ● Unknown: Portable positive-pressure type respiratory protective equipments, positive-pressure full-and air-feed type respiratory protective equipments assisted by portable positive-pressure type. ● Escape: Mask with organic vapor cartridges, escape-type portable respiratory protective equipments. ● Hand protection: gloves. ● Eye Protection : ● 1. Splashofsafetygoggles. 2. Face shield (minimum 8 inches) ° 3. Do not wear contact lenses. ● Skin and body protection : Chemical protective clothing ° 			
Health measures: <ol style="list-style-type: none"> 1. After work, remove as soon as possible contaminated clothing, wash before wearing again or discarded, and shall inform the dangers of laundry personnel pollutants. 2. No smoking or eating in the workplace. 3. Wash hands thoroughly after handling this substance. 4. Maintaining good housekeeping. 			

9. Physical and chemical properties

Appearance (physical state, color, etc.): Silver paste	Odor : -
Odor threshold : -	Melting : -
PH value : -	Boiling point / range : 166 °C
Flammability (solid, gas) : -	Flash Point : 31 °C
Decomposition temperature : -	Test Method :
Auto-ignition temperature : -	○ Open Cup Limit ● Close Cup Limit
	Explosion limits : -



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Vapor Pressure : -	Vapor Density : -
Density : -	Solubility : -
Octanol/water partition coefficient(log Kow)	Evaporation Rate: -

10. Stability and reactivity

Stability : Stable under normal conditions
Possible hazardous reaction under special conditions : —
Conditions to avoid : Heat, naked lights, flames, and ignition sources.
Substances to be avoided : 1. Contact with strong oxidizing agents may cause fires and explosions. 2. In contact with alkali to form flammable acetone vapors. 3. Will dissolve some plastics, resins and rubber.
Hazardous decomposition : —

11. Toxicity Data

Routes of exposure: inhalation, skin, eye, ingestion
Symptoms: chest pain, coma, irritation
Acute toxicity : Inhale : Can cause chest pain, coma, and nose, throat irritation. Skin : Long-term exposure may cause skin dryness, irritation and inflammation Eye : Can cause irritation of the eye. Ingestion : With inhalation. LD50 (Test animals, absorption route) : 2740 mg/kg (rat, swallow) LC50 (Test animals, absorption route) : 11300 ppm/4H (rat, inhale.)
Chronic toxicity or long-term toxicity : —

12. Ecological information

Ecological information : —
Persistence and degradability : —
Savings of biological : —
Mobility in soil : —
Other adverse effects : —



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13. Waste disposal methods

Waste Department to approach :

1. Under current regulations.

2. Consider qualified sanitary landfill or burning towers burning solvent.

14. Delivery Information

UN : 1263

UN shipping name : coating

Transportation hazard classification : III Flammable liquids

Package Type : III

Marine Pollutant (Yes / No): NO

Special delivery methods and precautions : -

15. Regulatory information

Applicable regulations :

1. Labor Safety and Sanitation Rules

2. Hazardous materials and hazardous substance general rules

3. Labor job allowable concentration of harmful substances in the environment standards

4. Road safety rules

5. Industrial Waste Storage and Disposal Standards.

16. Other information

References	—	
Tabulation unit	Name : TAIWAN KYLAN CO., LTD	
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