

ATTACHMENT 4

MATERIAL SAFETY DATA SHEET

1. Product and company identification:
Product name; product code; names, addresses, and phone numbers, emergency contact phone numbers/fax numbers of the manufacturer or supplier
2. Composition/information on ingredient:
Pure material: Chinese and English name; synonyms; CAS No.; the hazardous ingredient (% of the content)
Mixture: chemical property; Chinese and English names of the hazardous ingredients; concentration or concentration ranges (% of contents); classification and hazard symbols of the hazardous material
3. Hazards identification:
The most important hazardous effects, main symptoms, hazard classification of the product
4. First aid measures:
The first-aid measures for different exposure routes; the most important symptoms and hazardous effects; the protection of first aider; notes to physicians
5. Fire fighting measures:
Suitable fire extinguishing media; specific hazards may be encountered during fire-fighting; specific fire-fighting methods; special equipment for the protection of firefighters
6. Spill response measures:
Personal precautions; environmental precautions; methods for cleaning up
7. Handling and storage:
Handling; storage
8. Exposure controls:
Engineering control; control parameters; personal protective equipment; hygiene measures
9. Physical and chemical properties:
Physical state, form, color, odor, pH value, boiling point/boiling range, decomposition temperature, flashpoint, autoignition temperature, explosion limits, vapor pressure, vapor density, density, solubility
10. Stability and reactivity:
Stability; possible hazardous reactions occurring under specific conditions; conditions to avoid; materials to avoid; hazardous decomposition products
11. Toxicological information:
Acute toxicity; local effects; sensitization; chronic toxicity or long term toxicity; specific effects
12. Ecological information:

Possible environmental effects/environmental mobility

13. Disposal considerations:

Methods of waste disposal

14. Transport information:

International regulations for transport; United Nation number (UN No); domestic regulations for transport; specific transport measures and precautionary conditions

15. Regulatory information:

Applicable regulations

16. Other information:

Literature references; the organization that prepared the MSDS; the person that prepared the MSDS; the date that the MSDS was prepared

