Material Safety Data Sheet

Chemical name: AuroShield GS-4530 Effective date: January 5th, 2026

In view of the important information contained in this document, cotec expects you to read the entire chemical safety technical manual. Unless your use conditions require other appropriate methods or measures, please follow the preventive measures listed in this document.

1. Chemicals and company identification

1.1 Chemical Product Name: AuroShield GS-4530

1.2 Company logo: Haining Ketaike Metal Surface Technology Co., Ltd

1.3 24-hour emergency contact phone number:+86-573-87260622

Customer service hotline:+86-573-87260611

2. Chemical composition information

component	CAS	content
Thiol compounds		<3%
Nano film-forming agent		<2%
n-Octadecyl mercaptan	2885-00-9	＞5%
Naphtha(petroleum),hydrotreated heavy	64742-47-8	>90%

3. Hazard classification

3.1 Overview

Appearance: colorless and transparent~slightly milky white

Physical state: Liquid

Odor: Slight

Danger: Slight irritation to the eyes.

Label elements:

Pictogram:



Warning word: Danger

3.2 Potential Health Effects

Single acute overexposure

Inhalation: High concentrations of steam or mist irritate the respiratory tract, resulting in discomfort in the nose, runny nose, accompanied by chest pain and cough.

Eye contact: Moderate discomfort, conjunctiva may become severely red.

Skin contact: Mild irritation.

Skin absorption: Based on existing information, there are no harmful effects.
Phagocytosis: moderately toxic. Irritating the mouth, throat, esophagus, and stomach, accompanied by abdominal discomfort, nausea, vomiting, and diarrhea. Inhalation or vomiting can be absorbed by the lungs, leading to lung damage.
Long term or repeated overexposure
Multiple overexposure: According to existing information, there are no harmful effects.
Other effects of excessive exposure: unknown
Medical condition deterioration caused by exposure
The available toxicological data and the physical and chemical properties of the chemical indicate that it will not worsen existing medical conditions.

4. First aid measures

4.1 Inhalation: Move to fresh air. If symptoms persist, seek medical attention.
4.2 Eye contact: Immediately rinse with water continuously for several minutes. Remove contact lenses. If symptoms persist, seek medical attention.
4.3 Skin contact: Rinse with water.
4.4 Phagocytosis: If the patient is completely awake, drink 2 glasses of water. Do not induce vomiting. Seek medical attention.
4.5 Internal Medicine Doctor's Notice: No specific antidote. Treatment should be based on patient symptoms and clinical status. Due to the possibility of lung damage caused by vomiting absorption, do not use mechanical or medication to induce vomiting. If gastric lavage is necessary, use methods that avoid inhalation as much as possible (such as gastric lavage after endotracheal intubation)

5. Fire protection measures

5.1 Flammability - See Section 9, Physical and Chemical Properties.
5.2 Extinguishing medium: according to the technology recommended by the manufacturer, use water mist, alcohol type or fully applicable foam mist to extinguish the fire. Small fire uses carbon dioxide and dry powder medium.
5.3 Fire extinguishing procedure: Do not directly put solid running water or foam into the hot combustion pool, otherwise it will cause foaming and increase the fire.
5.4 Special protective facilities for firefighters: Wear self-contained breathing apparatus and fire-resistant clothing.
5.5 Special combustion and explosion hazards: Avoid water accumulation. Chemical modification may spread fire through water or come into contact with fire sources.
5.6 Hazardous flammable products: Carbon monoxide and/or carbon dioxide are produced during combustion. Inhalation of carbon monoxide is highly toxic, and sufficient carbon dioxide can suffocate.

6. Emergency measures for accidental leaks

Emergency steps for chemical leakage or overflow: Quickly absorb with inert substances (such as sand, soil). Load liquid and solid adsorbents into suitable containers for recycling or disposal. To avoid gelling and foam, do not wash with water.
Personal protection: Wear suitable protective equipment. Spillage may cause people to slip.

7. Handling and storage

7.1 Operation and disposal

General operation: Do not come into contact with eyes, do not swallow, keep the container tightly closed, ventilate thoroughly, and rinse thoroughly after operation.

Only for industrial use.

Ventilation equipment: Provide comprehensive or local ventilation equipment to control air levels within exposure guidelines.

7.2 Storage: Follow good industrial practices. More information can be obtained from specific product storage and operation guidelines or by calling Haining Ketek Metal Surface Technology Co., Ltd

8. Personal protection

Respiratory protection: Air levels should be maintained within exposure limits. When exceeding the limit, use safe air to clean the respirator. In case of emergency response or unknown air levels, use a safe positive pressure self-contained breathing apparatus or a positive pressure trachea with auxiliary self-contained air supply.

Ventilation: Provide comprehensive or local ventilation equipment to control air levels within exposure guidelines.

Eye protection: safety goggles or single goggles

Protective gloves: chloroprene rubber

Other protective equipment: eye wash, safety shower.

9. Physical and chemical properties

Appearance and characteristics: Colorless and transparent to slightly milky white volatile liquid with hydrocarbon properties.

Melting point (℃): ＜ -60

Boiling point (℃): 158.4~198.8

Kinematic viscosity (40 ℃), mm/s 0.93 GB/T 265-1988

Combustion heat (kJ/mol): No data available

Critical temperature (℃): No data available

Critical pressure (Mpa): No data available

Logarithmic value of octanol/water partition coefficient: no data available

Flash point (℃): ≥ 62.0 GB/T 261-1983 (1991)

Ignition temperature (℃): No data available

Explosion upper limit% (V/V): No data available

Lower explosive limit% (V/V): No data available

Solubility: Almost insoluble in water.

Odor: Slight

Specific gravity: 0.72-0.82 g/cm3

10. Stability and reactivity

10.1 Stability/Instability

stable

Situation to avoid: Prolonged heating can cause decomposition
Insoluble substances: Contact with strong oxidants and/or reducing agents will quickly release energy. Avoid contact with strong acids, bases, and substances that react with hydroxyl compounds at high temperatures.
10.2 Aggregation hazard: does not occur

11. Toxicological data

Important data that may be relevant to humans
In the study of skin contact experiments with rabbits that were continuously closed, it was found that this surfactant can cause inflammation of the lungs.

12. Ecological data

12.1 Environmental attribution: No data available
12.2 Ecotoxicity: No data available

13. Abandonment Notice

Prohibit discharge into sewers, ground, and any water bodies. Dispose of waste in accordance with national and local laws and regulations. Different regions have different regulations, and the selection of waste is mainly based on the characteristics of waste disposal and the application of laws. Regarding the operation and application of this chemical, Kotec Company does not manage the production activities or procedures of all parties involved. The information listed here is only applicable to the products that have been transported as specified in the contract, as described in the "Chemical Composition Information" section of this chemical safety technical manual. For unused and uncontaminated products, the best treatment options include using an incinerator, a thermal destruction device, and a wastewater treatment system.

14 Transportation information

fourteen point one
Non hazardous materials
Suitable transportation name: No regulations
Suitable transportation name: No regulations

This information does not cover all specific regulations and operational requirements related to the transportation of the chemical. More transportation information can be obtained from authorized sales representatives or customer service representatives. The transportation agency is responsible for complying with all laws, regulations, and rules regarding the transportation of this chemical.

15. Regulatory Information

This section provides excerpted regulatory information on the composition of the chemical, excluding all regulations. Users are responsible for complying with all applicable rules, regulations, and laws regarding the chemical.

16. Other information

Suggested use and usage restrictions
Industrial use only

Haining Ketaike Metal Surface Technology Co., Ltd. urges every customer or recipient of this manual to study it carefully, consult relevant experts, understand the significance of the data contained in this manual, and be vigilant about the dangers of the product. We provide the above information in good faith and are confident that it is accurate from the effective date indicated above, but we do not provide any express or implied warranties. Different regions have different regulatory requirements, and buyers/users should ensure compliance with all laws and regulations. The information listed here only applies to installed products. As the usage conditions of the product are not controlled by the manufacturer, the buyer/user has an obligation to determine the necessary conditions for safe use of the product. Due to different sources of information such as chemical safety technical manuals from different manufacturers