Material Safety Data Sheet

1. Product and company identification

Product name	:	4-n-Hexylphenol standard
Name of manufacturer	:	KANTO CHEMICAL CO., INC.
Address	:	11-5 Nihonbashi Honcho 3-Chome, Chuo-Ku, Tokyo 103-0023 Japan
Name of section	:	Reagent division, catalog and products information section
Telephone number	:	+81-3-3639-8301
Facsimile number	:	+81-3-3639-9435
MSDS No.	:	18704

2. Composition/Information on ingredients

Substance/Mixture	:	Substance
Chemical name or commercial name	:	4-n-Hexylphenol
Ingredients and composition	:	4-n-Hexylphenol min. 98.5%
Chemical formula	:	CH3(CH2)5C6H4OH
CAS No.	:	2446-69-7
TSCA Inventory	:	Registered
EINECS No.	:	2195012
Dangerous and hazardous ingredients	:	4-n-Hexylphenol

3. Summary of danger and Hazard

The most important danger and hazard	:	Corrosive to human body, and combustible.
Adverse human health hazards	:	May cause irritation of skin and eyes as well as inflammation. If inhaled vapor, cause cough, nausea, and difficulty in breathing.
Environmental effects	:	Not available
Physical and Chemical hazards	:	Flash point is relatively high. Vapor-air mixture may explode.
Class name of hazardous chemicals for SDS in Japan	:	Corrosive substances

4. First aid measures

Inhalation	:	Remove the victim to fresh air, and make him blow his nose and gargle.
Skin contact	:	Wash the affected areas under running water.
Eye contact	:	Wash the affected areas under running water for at least 15 minutes. If necessary, get medical treatment.
Ingestion	:	Give the victim water or salt water and make him vomit. Get medical attention.
Protection for first aid person	:	Savers wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

Extinguishing media	:	Dry chemical powder, carbon dioxide, dry sand, foam
Prohibited extinguishing media	:	Water spray
Particular fire fighting	:	Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area. Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Foam extinguisher is effective for a large scale fire.
Protection for firefighters	:	Wear breathing apparatus.

6. Accidental release measures

Cautions for personnel	:	Wear proper equipment and avoid contact with skin and inhalation of vapor. Keep personnel removed from and upwind of fire. Shut off all sources of ignition. Keep away personnel except for authorized ones from spillage area by stretching ropes.
Cautions for environment	:	Attention should be given not to cause damage to the environment by flowing of spillage to rivers.
Removal measure	:	Shut out the leakage source to stop leakage. For small spill, absorb spill with absorbent (e.g., diatomaceous earth, sand, cloth) and move to a chemical waste container.
Prevention of second accident	:	Remove nearby sources of ignition and prepare extinguishing media.

7. Cautions of handling and storage

Handling

Engineering measures	:	Ventilate well at working places. Wear proper protective equipment not to contact with skin or inhale the vapor. Pay attention to fire.
Cautions for safety handling	:	Use with an enclosed system or a local exhaust ventilation.
Cautions	:	Do not contact with oxidizing substances.

Storage

Adequate storage condition	:	Store in a dark, cool place and tightly closed.

8. Exposure control/Personal protection

Engineering measures	:	Use only with adequate ventilation and in closed systems.
Control parameters	:	Not established

Protective equipment

Respiration protective equipment	:	Chemical cartridge respirator with an organic vapor cartage or airline respirator
Hands protective equipment	:	Impervious protective gloves
Eyes protective equipment	:	Safety goggles
Skin and body protective equipment	:	Protective clothing, protective boots

9. Physical and chemical properties

Physical and chemical properties

Appearance	:	Liquid or solid
Color	:	Colorless-pale brown
Odor	:	Slight phenol like odor

Specific temperature or temperature range of physical conditions change

Boiling point	:	140°C/9.3hPa
Melting point	:	31°C
Flash point	:	Not available
Auto-ignition point	:	Not available

Explosion characteristics

Explosion limit	:	upper : Not available lower : Not available
Vapor density	:	6.1
Specific gravity	:	Not available

Solubility

Solubility in solvents	:	Water ; Insoluble Organic solvents ; Soluble in acetone, benzene, toluene.

10. Stability and reactivity

Stability	:	Stable under normal usage.
Reactivity	:	May react with oxidizing substances.
Incompatible conditions	:	Sunlight, heat, contact with oxidizing substances
Incompatible materials	:	Polyvinyl chloride resin, polystyrene
Hazardous decomposition products	:	Carbon monoxide

11. Toxicological information

Acute toxicity	:	If inhaled the vapor, irritate to nose throat and cause headache, dizziness, nausea.
Local effect	:	
Irritation to skin, eyes	:	If contacted with eyes, eyes are irritated and have inflammation.
Allergenic and sensitizing effects	:	Not available
Chronic and long term toxicity	:	Not available
Carcinogenic effects	:	Listed on neither IARC nor NTP.
Mutagenicity	:	Not available
Teratogenic effects	:	Not available
Effects on the reproductive system	:	Not available

12. Ecological information

Rediualbility and degradability	:	Not available
Ecorediualbility	:	Not available
Ecotoxicity		
Fish toxicty	:	Not available

13. Disposal consideration

Residual disposal	:	Burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.
Containers	:	In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class	:	Class 8(Corrosive substances) P. G. III
UN number	:	3145

The information contained herein is based on several references and the present state of our knowledge. However the MSDS does not always cover all information about the product, handle the product carefully.

The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.

The information herein is only provision of information, and it does not represent a guarantee the properties of the product.