
Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product name CHLORINATED PARAFFIN

Use of Substance Secondary Plasticizer and Fire Retardant Additive.
For details specific grades please refer to technical literatures

2. HAZARDS IDENTIFICATION

Substance identification

Substance Alkanes, C14-17, chloro
EC Number 287-477-0
CAS Number 85535-85-9

Hazards

Not classified as hazards substance according to national regulations
Repeated exposure may cause skin dryness and cracking.
Slightly irritant to eyes.
Repeated exposure to high levels may cause worse effects to liver and kidney.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance chemical family

MCCPs C₁₄-C₁₇Chlorinated Paraffin (Chlorination 30-65%)
Formula C_XH_(2X-Y+2) Cl_Y
Where X = 14-17 Y = 1-17

4. FIRST-AID MEASURES

Inhalation Remove patient from exposure to fresh air, keep warm and at rest
Skin Contact Remove contaminated clothing. Wash skin with soap

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Eye Contact	and water. Irrigate with eyewash solution or clean water, holding the eyelids apart for at least 15 minutes. Obtain medical attention
Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
Further Medical Treatment	If necessary treat with symptomatic.

5 FIRE-FIGHTING MEASURES

None Flammable	
Hazardous combustion	May decompose if heated above 200 Deg C with liberation of hydrogen chloride.
Extinguishing Media	Normal extinguishing media
Firefighting protective equipment	A self contained breathing apparatus and full protective clothing should be worn in fire condition

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin, eyes. Evacuate the area of all non-essential personnel. Shut off leaks if without personal risk. Be carefully spillages may cause slippery.
Personal protection	Wear impervious and splash goggles. If there are risk of inhalation of aerosols /mists/spray, wear full face-piece respirator with organic vapor canister.
Environmental precautions	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Clean-up methods small spillage	Absorb or contain liquid with sand or earth for spill control, subsequent safe disposal. Put leaking contamination in a labeled drum and covered for disposal. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.
large spillage	Transfer to a labeled sealable container for product recovery or safe disposal. Treat remains as small spillage.

7. HANDLING AND STORAGE

Handling	Avoid prolonged or repeated contact with skin and eyes. Avoid enter into drains, sewers, or water
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Storage	courses - Under ambient temperature and provide adequate ventilation Keep in original container with dry and good ventilation area. Avoid contact with rain and direct sunlight especially.
Storage temperatures	Ambient.(below 40°C)
Product transfer	Take precautionary measures against static discharge.
Materials for storage	Carbon steel or stainless steel.
Storage Life	One year if stored in accordance with advice given above.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	If there is risk of inhalation, wear half mask respirator with organic vapor cartridge and built-in particulate filter NPF 20 (gas only.)
Hand protection	Rubber or plastic protective gloves.
Eye protection	Wear safety glasses with side shields and a face shield, or goggles.
Body protection	Safety shoes or boots, chemical resistant typical issue work clothes.
Exposure Limit	Not established. Avoid repeated or prolonged exposure to vapor or mist without appropriate respiratory protection. Avoid prolonged contact with skin, washing thoroughly after work.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear & Clean Liquid
Odour	Paraffinic Sweet
Chlorine content (%wt)	30-65
Specific gravity/25	Typical 1.00—1.51
Solubility in water	Slightly soluble (0.005-0.027mg/l for 51%Cl ₂)
Solubility (others)	Soluble in most aromatic hydrocarbons, chlorinated solvents, esters and ketenes.
Viscosity (cps)	Depend on chlorine content.
Molecular weight	233-827 g/mole
Flash Point	>250°C (open cup)
Vapor Pressure(Pa at	Practically non-volatile. 2.7×10^{-4} for environment

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20°C)

assessment. Vapor pressure increased with temperature increase.

10. STABILITY AND REACTIVITY

Hazardous Reactions	React with alkali metals and alkaline earth metals which have a strong affinity for chlorine. React with iron, zinc and aluminum at high temperatures leading to decomposition.
Conditions to avoid	Strong oxidizing agents, heat or hot circumstances. Plastoil tends to soften or swell most rubbers.
Hazardous Decomposition Product(s)	Prolonged heating at temperatures in excess of 70°C or heating above 200°C for short periods will result in decomposition and liberation of hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely to be hazardous by inhalation
Skin Contact	Repeated exposure may cause skin dryness or cracking, unlikely to be hazardous by skin absorption.
Eye Contact	Repeated contact with eye is likely to cause eye irritation
Ingestion	Unlikely to be hazardous if swallowed
Long Term Exposure	Repeated exposure to high levels may cause worse effects to liver and kidney. Chronic ingestion studies in animals have shown that repeated doses of similar chlorinated paraffin (C14-17 52%) gave no effect levels in the range of 250-300ppm. Slight effects on the liver were seen at higher doses. Adverse effects have been seen in newborn rats, reared by dams fed on high doses of similar chlorinated paraffin. Chlorinated paraffin as a group of chemicals are not genotoxic. Their lack of genotoxic activity together with the results of other studies leads us to conclude that chlorinated paraffin are unlikely to present a carcinogenic hazard to human being under normal conditions of manufacturing, handling, and use.

12. ECOLOGICAL INFORMATION

Toxicity	Not classified by national regulations. Not listed on Toxic Chemical Substance Inventory by EPA.
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Environments fate and Distribution	MCCPs are viscous liquids of very low volatility and potential for limited bioaccumulation. There is evidence of partial hydrolysis in water and of slow degradation in soil and water.
Effect on effluent treatment	The product is partially removed in biological treatment processes.

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or the environments, dispose to an authorized waste collection devise.
 Disposal should be in accordance with local or nation legislation.
 The collected waste must be disposed of as hazardous material.

14. TRANSPORT INFORMATION

Not classified as Hazardous for transportation by National Regulations.

15. REGULATORY INFORMATION

Not classified as Hazardous for users.
 This SDS was prepared in accordance with Labor Safety and Health Act.
 This SDS satisfied Industrial Waste Storage Clearance and Disposal Methods and Facilities Standard.
 This SDS satisfied the Rules of Identification and Labeling management of Dangerous and Hazardous Materials.
 This SDS satisfied the Road Traffic Safety Act.

16. OTHER INFORMATION

References	none
Dept. of preparation	Environment and Safety/Health Department
Version	Initial version

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.