

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	:	Antioxidant for 485
Model No.	:	No.485-026B
Company name	:	Hakko Corporation
Address	:	4-5, Shiokusa 2-chome, Naniwa-ku, Osaka, 556-0024 Japan
Department in charge	:	Sales Division
Phone number	:	+81-6-6561-3225
Fax number	:	+81-6-6561-8466
Email address	:	cs@hakko.com
Recommended use	:	Antioxidant for a soldering pot

SECTION 2: Hazards identification

GHS classification


Physical hazards

Explosives	:	Not classified
Flammable gases	:	Not classified (Not applicable)
Aerosols	:	Not classified (Not applicable)
Oxidizing gases	:	Not classified (Not applicable)
Gases under pressure	:	Not classified (Not applicable)
Flammable liquids	:	Not classified (Not applicable)
Flammable solids	:	Not classified
Self-reactive substances and mixtures	:	Not classified
Pyrophoric liquids	:	Not classified (Not applicable)
Pyrophoric solids	:	Not classified
Self-heating substances and mixtures	:	Not classified
Substances and mixtures which, in contact with water, emit flammable gases	:	Not classified
Oxidizing liquids	:	Not classified (Not applicable)
Oxidizing solids	:	Not classified
Organic peroxides	:	Not classified
Corrosive to metals	:	Not classified
Desensitized explosives	:	Not classified
Ingestion hazard	:	Not classified

Health hazards

Acute toxicity, oral	:	Not classified
Acute toxicity, dermal	:	Not classified
Acute toxicity, inhalation (gas)	:	Not classified (Not applicable)

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Acute toxicity, inhalation (vapour)	:	Not classified
Acute toxicity, inhalation (dust and mist)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/eye irritation	:	Category 2B
Respiratory sensitization	:	Not classified
Skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity - single exposure	:	Category 3: Respiratory irritation
Specific target organ toxicity - repeated exposure	:	Not classified
Ingestion hazard	:	Not classified
Environmental hazards		
Hazardous to the aquatic environment, acute aquatic toxicity	:	Not classified
Hazardous to the aquatic environment, chronic aquatic toxicity	:	Not classified
Hazard to the ozone layer	:	Not classified
Label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Eye irritation May cause respiratory irritation
Precautionary statements		
Safety precautions	:	Wash hands thoroughly after handling. Avoid inhalation of dust, fumes, and vapors. Use outdoors or in well-ventilated areas only.
First-aid measures	:	If in eyes, rinse immediately with plenty of water for several minutes. If contact lenses are present and can be easily removed, remove them. Continue rinsing until irritation subsides. If eye irritation persists, seek medical attention. If inhaled, remove to fresh air and allow to rest in a position comfortable for breathing. Seek medical attention if feeling unwell.
Storage	:	Store in a well-ventilated place. Store in a closed container.
Disposal	:	Dispose of in accordance with local and national regulations.

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SECTION 3: Composition/information on ingredients

Category of chemical substance /mixture : Mixture
 Chemical name or generic name : Antioxidant for 485

Ingredient name	Content (%)	CASNo.
Paraffin wax	75~85%	8002-74-2
Microcrystalline	15~25%	63231-60-7

SECTION 4: First-aid measures

Solid form, no special handling is required. However, take care when handling in molten form as it can cause burns or other injuries.

(In dissolved form)

- If inhalation : In case of inhalation of fumes or vapors generated from a molten product, if the victim feels a burning sensation in the throat, or discomfort or headache, immediately move the victim to a well-ventilated area and keep the victim calm. Seek medical attention from a doctor immediately. Remove contaminated clothing and other items from the victim as soon as possible.
- If on skin : In case of contact with molten product, immediately cool the affected area with large amounts of water. Then, provide first aid for burns. Do not peel off the product that has adhered to the skin. Then, seek medical attention from a doctor immediately.
- If in eyes : In case of molten product, immediately flush eyes with large amounts of clean water and cool the affected area. Then, seek medical attention from a doctor immediately.
- If swallowed : Do not induce vomiting. Seek medical attention from a doctor immediately. However, if the product gets stuck in the throat and causes respiratory distress, induce vomiting immediately and seek medical attention from a doctor.

(In solid form)

- If on skin : Generally, there are no health concerns. However, if a worker with a history of skin allergies develops skin abnormalities, they should seek medical attention.
- If in eyes : Similar to when dust gets in the eye, flush eyes with large amounts of water without rubbing. Seek medical attention if symptoms persist.
- If swallowed : Treat as for molten material.

SECTION 5: Fire-fighting measures

- Suitable extinguishing media : soil, sand, dry chemical, carbon dioxide
- Unsuitable extinguishing media : Rodded water spray
- Special hazards arising from the substance or mixture : May ignite on exposure to heat, sparks or flames. May burn when heated strongly. May generate irritating, corrosive and/or toxic gases on fire.
- Specific fire-fighting measures : Move containers from fire area if it is safe to do so. Remove ignition sources if it is safe to do so.
- Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory protection and chemical protective clothing (heat-resistant) when fighting fire. Conduct fire-fighting operations from the windward side as much as possible. Prohibit unauthorized entry to the area surrounding the fire site.

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SECTION 6: Accidental release measures

- Personal precautions, protective Equipment and emergency procedures : Keep out of reach of unauthorized persons.
Wear appropriate personal protective equipment (PPE).
Be careful of slippery areas caused by spills.
- Environmental precautions : Prevent the leakage from reaching sewers, drains, and low-lying areas.
Do not discharge into sewers or drains.
- Methods and material for containment and cleaning up : Gather up and collect in a container.
Absorb or cover with dry soil, sand, or non-combustible material, and transfer to a container.
- Preventive measures for secondary accident : Prepare fire extinguishing equipment in case of fire.
Remove all sources of ignition (no smoking, open flames, or sparks in the vicinity).

SECTION 7: Handling and storage

In case of storing or handling 3,000 kg or more, comply with the standards set by the municipal ordinance.

Handling

- Technical measures : Implement the equipment measures described in "8. Exposure controls/personal protection" and wear personal protective equipment.
- Exhaust/ventilator : Install exhaust and ventilation equipment.
- Safety Handling Precautions : Use only as an antioxidant.
Keep away from fire.
Do not eat, drink, or smoke while handling.
Avoid inhaling dust, fumes, and vapors.
Use only outdoors or in a well-ventilated area.
Avoid contact with eyes.
- Contact Avoidance : Refer to Section "10. Stability and reactivity".
- Hygiene measures : After handling, wash hands thoroughly and gargle before smoking, eating, or drinking.

Storage

- Storage conditions : Store in a cool, well-ventilated place, away from direct sunlight.
- Storage conditions to be avoided : Do not store with oxidizing agents.
Free from contamination.
- Safe Container and Packaging Materials : Appropriate container and packaging materials

SECTION 8: Exposure controls/personal protection

Adopted value

Japan Society for Occupational Health	:	Not configured.
ACGIH	:	TLV-TWA 2mg/m ³ as fume

- Equipment measures : Install exhaust, ventilation, safety showers, and hand-washing facilities in the handling area.

Protective equipment

- Respiratory protection : Respirator with dust filter or hose respirator
- Hand protection : Impervious protective gloves
- Eye protection : Safety glasses with side shields or goggles
- Skin and body protection : Protective boots, apron, etc.

SECTION 9: Physical and chemical properties

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Physical state	:	Waxy solid
Color	:	Pale yellow
Odor	:	Slight odor
Melting point/Freezing point	:	70°C
Boiling point	:	Data not available
Flammability	:	Flammable solids
Lower explosive limit (LEL) and upper explosive limit (UEL)	:	Not classified
Flash point	:	Over 270°C
Auto-ignition temperature	:	Data not available
Decomposition temperature	:	Data not available
pH	:	Not classified
Viscosity, kinematic	:	Not classified
Solubility	:	Insoluble
Partition coefficient n-octanol/water (log)	:	log Pow > 6
Vapor pressure	:	Data not available
Density•Relative density	:	0.78 g/cm ³ , at 80°C
Relative vapor density	:	Not classified
Particle characteristics	:	Data not available

SECTION 10: Stability and reactivity

Reactivity	:	No self-reactivity.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Reacts with oxidizers and strong acids.
Conditions to avoid	:	Prolonged exposure to heat, flame, or ignition source
Incompatible materials	:	Oxidizers and strong acids
Hazardous decomposition products	:	Data not available

SECTION 11: Toxicological information

Acute toxicity, oral	:	Not classified
Acute toxicity, dermal	:	Not classified
Acute toxicity, inhalation (gas)	:	Not classified (Not applicable)
Acute toxicity, inhalation (vapour)	:	Not classified
Acute toxicity, inhalation (dust and mist)	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/eye irritation	:	Category 2B
Respiratory sensitization	:	Not classified
Skin sensitization	:	Not classified

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Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory tract irritation)
Specific target organ toxicity - repeated exposure	:	Not classified
Ingestion hazard	:	Not classified

SECTION 12: Ecological information

Hazardous to the aquatic environment, acute aquatic toxicity	:	Not classified
Hazardous to the aquatic environment, chronic aquatic toxicity	:	Not classified
Ecotoxicity	:	Data not available
Persistence and degradability	:	Biodegradable by microorganisms
Bioaccumulation	:	Data not available
Soil mobility	:	Data not available
Hazard to the ozone layer	:	Not classified

SECTION 13: Disposal considerations

Residual waste	:	For disposal, the chemical must be entrusted to a waste disposal company that has been approved by the prefectural governor.
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SECTION 14: Transport information

International regulations

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class or division	:	Not applicable
Packing group	:	Not applicable
Special safety precautions for Transportation or transportation means	:	If transported in quantities exceeding 3,000 kg, a yellow card must be carried. Do not transport with food or feed. During transportation, the chemical must be protected from direct sunlight, and loaded in a way to prevent container damage, corrosion, and leakage. Do not stack heavy objects on top.

SECTION 15: Regulatory information

Industrial Safety and Health Act	:	Labeling/Chemical subject to SDS provision (Table 9-170)
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		【Solid paraffin】
PRTR Act	:	Not classified
Poisonous and Deleterious Substances Control Act	:	Not classified
Fire Defense Law	:	Designated flammables (flammable solids)
Water Pollution Control Law	:	Wastewater discharge standards for living environment items applicable to specific facilities with an average daily discharge of 50m ³ or more. Content of substances extracted with n-hexane (Mineral Oil Content) : 5 mg/L.
Sewage Works Law	:	Mineral oil discharge regulation (Permissible Concentration: 5 mg/L)
Waste Disposal and Public Cleansing Law	:	Industrial Waste Regulation (Prohibition of Diffusion and Leakage)

SECTION 16: Other information

Sources Manufacturer's SDS

This data is based on information and data available at the time of its creation and may be revised based on new findings.

The information provided is based on normal use conditions and the hazard assessment may not be complete. Therefore, please use the product in accordance with the intended use and application, and implement appropriate safety measures.

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