

MATERIAL SAFETY DATA SHEET

File NO.: 65280-002

DENKA TRANSPARENT ABS Natural Color

MSDS DATE : 2006/8/1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

RPRODUCT NAME : DENKA TRANSPARENT ABS (NATURAL COLOR)
GRADE NAME : TW-28

MANUFACTURER : DENKI KAGAKU KOGYO KABUSIKI KAISYA
DIVISION : FUNCTIONAL PLASTIC DIVISION
ADDRESS : NIHONBASHI MITSUI TOWER,1-1 NIHONBASHI-MUROMACHI 2-CHOME,CHUO-KU,TOKYO 103-8338 JAPAN

TELEPHONE : JPN(03)5290-5414

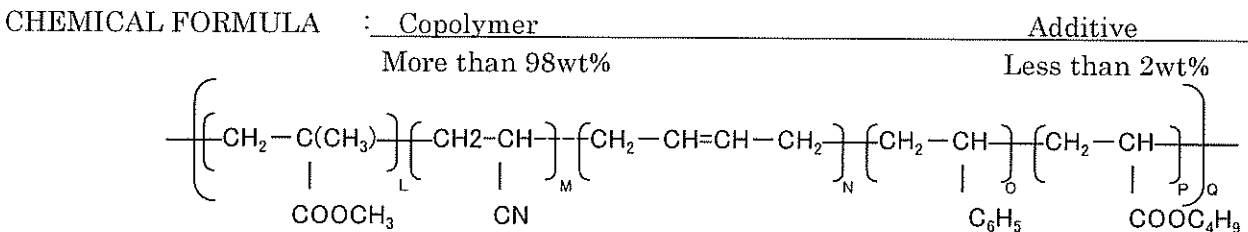
FAX PHONE : JPN(03)5290-5503

EMERGENCY CONTACT: JPN0436-26-3232 Denki Kagaku Kogyo Chiba Plant

PRINTED DATE : 2006/8/1

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION : Methylmethacrylate·Acrylonitrile·Butadiene·Styrene·Butylacrylate Copolymer



CAS.No. : 25101-28-4/107592-06-3

SECTION3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY : Inhalation, ingestion, eye and skin contact

POTENTIAL HEALTH EFFECTS : No information

CARCINOGENIC EFFECTS : No information

MUTAGENIC EFFECTS : No information

TERATOGENIC EFFECTS : No information

EFFECTS ON THE REPRODUCTIVE SYSTEM: No information

SECTION4: FIRST AID MEASURES

EYES : Remove contact lenses stick to eye balls. Immediately flush the affected eyes well with clean water. Do not rub the eyes to prevent corneas injuries. Seek medical attention if irritation persists.

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File NO.: 65280-002

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SKIN : Wash well with water. If condenses of gas generated from the substance molten at high temperature, wash well with soapy water. In case of molten plastic contact with skin, cool immediately with water and seek medical attention.

INGESTION : Not likely to ingest. If a large amount is swallowed, seek medical attention.

INHALATION : Not likely to inhale pellets due to their physical form. If inhale gases and/or fumes from the molten resin at high temperature, leave the place immediately and breathe fresh air. If coughing and/or difficult breath occurs, seek immediate medical attention.

SECTION5: FIRE FIGHTING MEASURES

FIRE FIGHTING : This product generates intense heat, dense black smoke, carbon dioxide, carbon monoxide, carbon, hydrogen cyanide and so on. Wear fire protective closing and breathing apparatus for fire fighting.

EXTINGUISHING MEDIA: Water pouring, water spray and regular fire extinguishers can be used.

AUTOIGNITABILITY : 465°C(ASTM-D 1929-77)

EXPLOSION LIMIT : Not available

Flash Point : Not available

SPECIAL FIRE FIGHTING PROCIDURES: None

HAZARDOUS DECOMPOSITION PRODUCTS: The resin generates decomposed gases.

SECTION6: ACCIDENTAL RELEASE MEASURES

If spilled on road or floor, sweep and collect materials to prevent slipping and falling. Released materials must be collected for environmental protection.

SECTION7: HANDLING AND STORAGE

HANDLING : Gases generated during processing the material may cause irritation to the skin and the respiratory organs. If a large amount of the gases is inhaled, it may cause nausea and headache. Refrain from inhaling them. Prevent dust accumulation from cutting and grinding the materials, which may cause a dust explosion by electrostatic charges or electric spark.

STORAGE : Store under no direct sunlight and in a dry place avoiding excessive heat and sources of ignition. Prevent electrostatic charges which may cause explosion.

SECTION8: EXPOSURE CONTROLES/PERSONAL PROTECTION

ENGINEERING MEASURES : Local ventilation system is required for better working environment as gases are generated during the high temperature processing of the materials.

RESPIRATORY PROTECTION : Wear respirator during machinery processing or sanding of resin which produces dust. When working under high dense gases and/or fumes circumstances, wear organic gas respirator.

MATERIAL SAFETY DATA SHEET

File NO.: 65280-002

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EYE PROTECTION : Wear protective glasses during machinery processing or sanding.

SKIN PROTECTION : Wear long sleeve clothing when handling molten resin.

OTHER PROTECTIVE EQUIPMENT: Wear heat-resistant gloves when handling molten resin.

SECTION9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Pellets

ODOR : Odorless

PHYSICAL STATE : Solid

pH : Not available

BOILING POINT : Not available

MELTING POINT : No definite temperature. Softening in the broad range of temperature between 130-150°C.

SPECIFIC GRAVITY : 1.09-1.11

SOLUBILITY IN WATER: Water - Insoluble

SECTION10: STABILITY AND REACTIVITY

FLAMMABILITY : No information

SOLUBILITY : Water - Insoluble

OXIDIZABILITY : Not occur under proper storage condition

SELF-REACTIVITY : There is no self-reactivity at room temperature.

EXPRESSIVENESS : At high temperature(250-400°C) decomposed gases are generated from resin decomposition. In this case cool the molten resin with water as soon as possible.

DUST EXPLOSIVES : Explosive

STABILITY AND REACTIVITY : None under ordinary condition

SECTION11: TOXICOLOGICAL INFORMATION

SKIN CORROSIVENESS: None

IRRITABILITY : Physical irritation is observed(SKIN/EYE)

ACUTE TOXICITY : Oral LD₅₀(rat) > 5g/kg(Assumed value)

SECTION12: ECOLOGICAL INFORMATION

No data available. Release may cause environmental hazard.

SECTION13: DISPOSAL CONSIDERATIONS

Comply with national and/or local regulations.

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SECTION14: TRANSPORT INFORMATION

Avoid moisture and rough handling which may damage its package. If bag is broken and the materials are spilled, sweep and collect them immediately to prevent slipping and falling.

SECTION15: REGULATORY INFORMATION

Comply with national and local regulations.

SECTION16: OTHER INFORMATION

This information is based on currently available technical materials and data, and is subject to change due to new experience and knowledge. All guideline is for ordinary use and not for special application or handling, which requires proper safety measures. This publication is made to provide information only and does not guarantee anything.