

# SAFETY DATA SHEET(SDS)

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FileNo. 2102

## 1. Chemical Product & Company Identification

CHEMICALPRODUCT NAME: DURANEX® 652SA Colored  
NAME OF COMPANY: Polyplastics Co.,Ltd.  
ADDRESS: 2-18-1 Konan, Minato-ku, Tokyo,108-8280 Japan  
SECTION IN CHARGE: Quality Assurance Dept.  
TELEPHONE NUMBER: 03-6711-8605  
FACSIMILE NUMBER 03-6711-8616

## 2. Hazards identification

### [ GHS CLASSIFICATION ]

Physical and Chemical Hazards : · Flammable solids : Classification not possible  
· Self-reactive substances and mixtures : 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 solids : Not classified  
· Corrosive to metal : Not classified

Health Hazards : · Carcinogeneses : Category 1B  
· Specific target organ/systemic toxicity (Repeated exposure) : Category 2(Lung)

Environmental Hazards : Classification not possible

### [ SYMBOL ]



### [ SIGNAL WORD ]

: Danger

### [ HAZARD STATEMENT ]

: · May cause cancer.  
· May cause damage to organs(Lung) through prolonged or repeated exposure.

### [ PRECAUTIONARY STATEMENTS ]

Prevention : · Obtain special instructions before use.  
· Do not handle until all safety precautions have been read and understood.  
· Wear protective gloves/protective clothing/eye protection/face protection.  
· Do not breathe dust/fume/gas/mist/vapours/spray.  
· Wash hands thoroughly after handling.

Response : · If exposed or concerned: Get medical advice/attention.  
· Get medical advice/attention if you feel unwell.

Storage : · Store locked up.

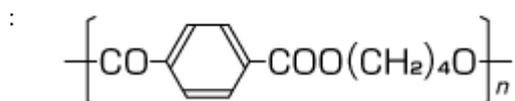
· Avoid direct sunlight and store in a well-ventilated place.

Disposal : Dispose of contents/container in accordance with local & national regulations.

## 3. Composition/information on ingredients

SUBSTANCE/PREPARATION : Mixture  
COMMON CHEMICAL NAME : Polybutyleneterephthalate  
SYNONYMS : Polybutyleneterephthalate(PBT)  
INGREDIENTS AND COMPOSITION : PBT  $\geq$ 33.4%, Diantimony trioxide  $\leq$ 10%,  
Titanium oxide  $<$ 1.6%,  
Flame retardant and other polymer, etc.  $\leq$ 55%

CHEMICAL FORMULA



SERIAL No. IN OFFICIAL GAZETTE

: 7-1039(base resin) (Law Concerning Examination and Regulation of Manufacture, etc., of Chemical Substances)

CAS No.

: 24968-12-5(base resin)

INGREDIENTS CONTRIBUTING TO THE HAZARD

: Cadmium, lead, hexavalent chromium and mercury are not used in this grade.

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4. First-aid measures

INGESTION

: When a gas generated from the molten polymer has been inhaled, move to area of fresh air without delay and wait until the victim is recovered. If sick feeling continues, ask a physician for advice.

SKIN CONTACT

: Cool the contacted skin with clean water without delay, if a contact with the polymer in a molten form. Do not force to remove the solid resin on the skin. If any burns are observed on the skin, ask a physician for advice.

EYE CONTACT

: Cool and rinse the eye with clean water for at least 15 minutes when the eyes had contact with molten polymer. In case of wearing contact lenses, remove the lenses as soon as possible, and ask a physician for advice. When the eye had contact with the polymer in an ordinary solid form, rinse the eye with clean water without delay. If the discomfort persists, ask a physician for advice.

SWALLOW

: Help to vomit as much as possible. If sick feeling continues, ask a physician for advice.

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5. Fire-fighting measures

EXTINGUISHING MEDIA

: Water, foam fire-extinguishing agent, powder fire-extinguishing agent, and carbon dioxide gas.

SPECIFIC METHODS

: Extinguish the fire with water. A method of extinguishing an ordinary fire may be applied. Do not apply water directly to processing machines.

SPECIFIC HAZARDS

: Incomplete combustion leads to generation of toxic gases such as carbon monoxide or tetrahydrofuran, in addition to carbonic acid gas and water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

: In case the fire gained force, use a gas mask or other protective equipment.

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6. Accidental release measures

PERSONAL PRECAUTIONS

: When pellets were spilled on the road or floor, wipe them off with a broom or cleaner not to cause slipping.

ENVIRONMENTAL PRECAUTION

: Handle the spillage in accordance with provisions given in the "Resin pellet spillage preventive manual", in order to prevent intakes by marine animals and birds.

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7. Handling and storage

HANDLING

: Polybutyleneterephthalate resin in a pellet form will neither ignite nor explode at room temperatures.

HANDLING 2

: This pellets spilled on the floor are likely to cause slipping. Remove such spillage at any times.

HANDLING 3

: For molding work, effective means for local exhaust are required to discharge gases generated by melt processing.

HANDLING 4

: Avoid inhaling of gases generated in molding work. Do not directly touch resin of high temperature.

HANDLING 5

: Avoid retaining hot resin in the processing machines for many hours.

STORAGE

: Keep the substance away from any fire or heat sources for the



- chromosomal aberration)
- REPRODUCTIVE TOXICITY : No finding.
- TERATOGENICITY : No finding.
- OTHERS(Including generation of hazardous gases by reaction with water, for example) : No finding in this report means that there will be no hazard in general, but no proving data available at the time of reporting.
- OTHER CAUTIONS : With regard to dust, the maximum permissible concentration and limits are fixed by OSHA and ACGIH.
- OTHER CAUTIONS 2 : Toxicological information of Diantimony trioxide which is an ingredient is shown below. Toxicity of the ingredient does not appear as product for pellet. When dust is generated by cutting and sanding, toxicity appears. Avoid breathing dust and avoid generating dust.

[Diantimony trioxide]

Acute toxicity

Oral : Category 5

Dermal: No information

Inhalation: No information

Skin Corrosion/Irritation: No information

Eye Damage/Irritation: No information

Sensitization-Skin: No information

Germ Cell Mutagenicity: Not classified

Carcinogenicity: ACGIH A2; Suspected Human Carcinogen.

IARC 2B; Possible carcinogenic to humans.

Toxicity to Reproduction: Not classified

Specific Target Organ Toxicity(Single Exposure)

Judged as Category 2 about the respiratory organs when investigated with documents of CERI hazard data used in the judgement of GHS classification results by three Ministries. On the other hand, "Not Classified" is judged from documents shown by public comment. It is assumed to be "Category 2"(respiratory organs) from view point of disseminating the risk, because both vary in the category by useful data.

Specific Target Organ Toxicity(Repeated Exposure)

For human "Pneumonia was confirmed by chest X-rays examination." "Antimonial pneumoconiosis was seen, and pneumoconiosis was doubted." "The relations between chest X-ray image abnormality, the remaining in the antimonial lungs and the exposure period were reported." "Existence of the echymotic shadow of less than 1 mm in diameter and its accumulation to pulmonary middle lobe" (IRIS 2002)

For mammal: "The color change of the lungs was seen by the necropsy." "A particle component phagocyte, a denaturing phagocyte, alveolus intramural cell waste were observed." "Interstitial fibrosis, the enlargement of the alveolus epithelium cell and the hyperplasia" "Granuloma-like inflammation and granuloma" [IRIS(2002)] "Weight loss, interstitial fibrosis, enlargement of the alveolus epithelium cell and hyperplasia, cube and cylinder epithelium apparition, cholesterol rime" [CERI hazard data 2001-7 (2002)] In addition, the influence on mammals was seen in the range of a guidance level

Category 1. The classification of the antimony compound is assumed to be Category 1(respiratory organs) as mentioned above.

Aspiration Hazard: No information

REMARKS : Hazards information and so on result from the national classification of Diantimony trioxide.

12. Ecological information

BIODEGRADABILITY : No finding.  
BIOACCUMULATION : No finding.  
FISH TOXICITY : No finding.  
HAZARDS TO OZONE LAYER : None

13. Disposal considerations

WASTE FROM RESIDUES : This is designated as waste plastics among industrial wastes by the Wastes Disposal Law. Disposal waste pellets through licensed wastes handlers or local autonomous bodies if they are handling wastes disposal.  
WASTE FROM RESIDUES 2 : When disposed by incineration, use the well controlled incinerators in accordance with the Wastes Disposal Law, Air Pollution Control Law and Water Pollution Prevention Law.

14. Transport information

UN CLASSIFICATION NUMBER : Not restricted for ICAO/IATA.  
OTHER CAUTIONS : Handle with care so as not to give damages to containers or not to be subjected to wetting.  
OTHER CAUTIONS 2 : Secure the containers firmly so as not to cause collapsing.

15. Regulatory information

WASTE DISPOSAL LAW : Waste plastics among industrial wastes.  
LAW CONCERNING REPORTING,ETC. OF RELEASES TO THE ENVIRONMENT OF SPECIFIC CHEMICAL SUBSTANCES AND PROMOTING IMPROVEMENTS IN THEIR MANAGEMENT(PRTR) : Designated as Class I Designated Chemical Substances Cabinet order Annex 1 No.31.(antimony and its compounds; Government ordinance No.356, revised October 1 2009)  
The content of chemical substance required by the law will be given in another sheet. You are required to submit the confidential agreement for this information. Please take contact with our sales person for more detail.  
INDUSTRIAL SAFETY AND HEALTH LAW : ·Designated as Cabinet order No.93 Annex 9 No.38.(Antimony and its compounds)  
·Many colored products titanium oxide(designated as cabinet order No.93 Annex 9 No.191) more than the threshold to be declared.  
INDUSTRIAL SAFETY AND HEALTH LAW (ORDINANCE ON PREVENTION OF HAZARDS DUE TO SPECIFIED CHEMICAL SUBSTANCES) : Classified as Specified Chemical Substances, Control Group-2 Substances and Specified Control Substances (Diantimony trioxide and its mixture containing more than 1wt% of Diantimony trioxide )  
Exemption: Handling of resin pellets is exempted from this Act because it is considered as handling of the above-mentioned substances that are embedded in solid materials such as resins.

16. Other information

HANDLING OF THE DETAILS GIVEN ABOVE : This SDS is the English version translated from the Japanese SDS which is prepared for domestic use. Details given above are based on references, information and data available at this moment, but no warranty can be made on exactness of these details. They are also prepared on the assumption that the product will be handled in a normal way. For special handling, adequate safety and environmental measures should be taken in respect to its applications. Our products are not specifically intended for implants for medical and dental applications, and

therefore they are not recommended for such applications.  
"No finding" in this report means that there will be no hazard in general, but no proving data is available at the time of reporting.

WHERE TO CALL FOR FURTHER INFORMATION : Polyplastics Co., Ltd. Quality Assurance Dept. Tel. No 03-6711-8605

\*DURANEX® is a registered trademark of Polyplastics Co., Ltd. in Japan and other countries.

