

#### 1. Identification of substance

**Trade name** DuPure<sup>®</sup> (Polypropylene Homopolymers)

Grades:

DuPure® R 76, T 76, U 76, W 76, Y 76, L 76 A, U 76 A, T 76 V, U 76 V, W 76 V, U 76 AV, E 50, L 50, R 50, T 50, T 50 V, E 50 E, G 50 E, L 50 E, M 50 E, W 50 E, G 86 E, G 87 E, M10050, G 72 TF, G 72, L 76 A, M 88 E, L 88 EV, R 88 E, S 88, S 88 E, T 88 E, U 88, U 88 E, R 87 E, DX11901,

DX11902

DuClear® (Polypropylene Homopolymers)

Grades:

DuClear® U 73 A

Identified uses Manufacture of plastic articles by injection molding, extrusion or other

conversion process

**Prohibited used** Applications involving permanent implantation into the body, European Class

III & FDA Class III medical devices

**Manufacturer** Ducor Petrochemicals B.V.

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#### 2. Hazards Identification

Telephone

Classification & Labeling This product is not classified as hazardous according to EEC directives

67/548/EEC, 1999/45/EC.

This product is not classified as hazardous according to EC regulations

1907/2006/EC, 1272/2008/EC, and following amendments.

Information pertaining to particular dangers for man and environment

Fine dust may cause irritation of respiratory system and mucous.

Contact with hot (molten) material – risk of serious burns. If heated to more than 160°C, the product may form vapors or fumes which may cause

irritations of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures Dust may form explosive mixture in air.

Combustible dust

### 3. Composition/Information on Ingredients

Chemical Name 1-Propene-homopolymer

**Chemical Formula** (C3H6)n **CAS No. Designation** 9003-07-0

**Description** Mixture of 1-Propene-homopolymer with additives/stabilisers

#### 4. First Aid Measures

General information Take proper precautions to ensure your own health and safety before

attempting rescue and providing first aid.

After inhalation Exposure to spray, fumes and vapours produced by heated or burned

product: Move to fresh air. Call for medical help.

After skin contact After contact with the molten product, cool rapidly with cold water. Do not pull

solidified product away from the skin. Seek immediate medical advice.

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After eye contact Immediately rinse with water for a prolonged period while holding the eyelids

wide open. In case of irritation caused by fine dust: wash with copious

volumes of water, until the irritation disappears.

In case of eye contact with molten polymer: continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, do not attempt to remove the material adherent to the eye(s). Immediately seek medical

attention

After swallowing No specific measures have to be taken if the product is swallowed.

## 5. Fire fighting measures

Suitable extinguishing

agents

Unsuitable extinguishing

agents

Specific hazards during

fire fighting

Keep away from heat and sources of ignition.

For small fire: Carbon dioxide. Dry powder. Water spray.

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). The formation of hydrocarbons and aldehydes are possible in the initial stages of a

fire (especially in between 400 and 700°C)

Protection during firefighting

Additional information

Wear approved positive pressure self-contained breathing apparatus and

firefighter protective clothing.

For large fire: Foam.

Solid water jet/stream

Combustible particulate solid, will decompose under fire conditions.

Calorific Value: 8000 - 11000 kcal/kg

Fight fire from safe distance with hose lines or monitor nozzles. Heat from fire may melt, decompose polymer, and generate flammable vapors. Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container. Always stay away from tanks engulfed in fire. Do not attempt to get on top of storage containers involved in fire. Cool storage

containers with large volumes of water even after fire is out.

# 6. Accidental Release Measures

Person-related safety precautions

Measures for

Measures for cleaning/collecting

environmental protection Measures for Creates dangerous slipping hazard on any hard smooth surface.

Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust

surfaces with compressed air). Potential combustible dust hazard.

Do not flush into surface water or sanitary sewer system

On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk.

On water, material is insoluble; collect and contain as any solid.

All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

#### 7. Handling and Storage

Information for safe handling

Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Requirements for storage areas and containers

Storage facilities must fulfill all fire safety requirements for buildings, and all electrical appliances must be compliant with the applicable regulations. Store in a dry, cool, well-ventilated area. Protect from heat and direct sunlight. Keep

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away from heat, hot surfaces, sparks, open flames and other ignition sources. Proper grounding procedures to avoid static electricity should be followed. Prevent accidental release of the material in the environment during storage

# 8. Exposure Controls and Personal Protection

Control parameters: Components with

Occupational Exposure Limits

workplace control parameters

Ingredients	Source	Туре	Limit value
Materials that can be formed when handling this product: Non specified (inert or nuisance) dust	US - ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ inhalable 3 mg/m³ respirable

Consult local authorities for acceptable exposure limits

**Exposure controls Engineering measures**  Ensure good ventilation of the work place. If handling results in dust generation or high temperatures, local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Safety shower. Eye fountain.

Personal protective equipment

General protective and

hygienic measures Respiratory protection Dustproof clothing. Gloves. Safety glasses. Dust formation: dust mask.

Do not eat, drink or smoke during use

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate

certified respirators.

Protective gloves. When handling hot material, wear heat-resistant protective gloves Hand protection

that are able to withstand the temperature of molten resin.

Eye protection Safety glasses with side-shields.

Skin & Body protection Wear suitable clothing. Safety foot-wear

# 9. Physical and Chemical Properties

Physical state Solid

**Appearance** Pellet / Granule Colour Translucent to white

Odor Slight Melting point/range 140-170°C

Boiling point/range Decomposition starting from 300°C

Autoignition temperature > 300°C

Lower explosion limit The minimum explosive concentration (MEC) for polymer dust varies

according to particle size distribution

0.89-0.91 g/cm3 Density

Insoluble Solubility in water **Bulk Density** 400-600 kg/m3

### 10. Stability and Reactivity

Reactivity Electrostatic charges may be generated during handling. Take precautionary

measures against static discharge during blending and transfer operations. The product is stable at normal handling- and storage conditions

**Chemical Stability** 

reactions

Possibility of hazardous

Dust may form explosive mixture in air.

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Conditions to Avoid No flames, no sparks. Eliminate all sources of ignition. Avoid temperature

above 300°C.

Materials to avoid **Hazardous decomposition** 

Strong acids. Strong bases. Strong oxidizing agents. Halogens. Not expected to decompose under normal conditions.

products

Thermal decomposition Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

11. Toxicological Information

Acute oral toxicity Not classified Skin corrosion/irritation Not classified

Heated product causes burns. Thermal decomposition products are produced

at elevated temperatures and these may be irritating

Serious eye damage/

irritation

Not classified

Fine dust may cause irritation to ocular mucous. Thermal decomposition products are produced at elevated temperatures and these may be irritating.

Heated product causes burns.

Respiratory or skin

sensitisation

Not classified

Not classified

Cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified Specific target organ Not classified

toxicity (single exposure) Dust may cause irritation of respiratory system. If heated to more than 160°C,

> the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath

Specific target organ

toxicity (repeated

exposure)

Not classified Aspiration hazard

12. Ecological Information

**Ecotoxicity Effects** Ecological damages are not known or expected under normal use. Small

particles can have an effect on water and soil organisms.

Product persists. Not expected to be biodegradable.

Persistence and degradability

Bioaccumulation This product is not expected to bioaccumulate

Mobility in soil Low mobility. The product is not volatile, and insoluble in water

**Results of PBT** Not determined

assessment

Other adverse effects No additional information available

13. Disposal Considerations

Waste treatment methods All recovered material should be packaged, labeled, transported and disposed

> of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

Recycle if possible.

Additional information Incinerate with household refuse in a municipal solid waste incinerator plan.

14. Transport Information

**Transport Classification** The substance is not classified as dangerous according to relevant transport

regulations.

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# 15. Regulatory Information

**EC regulations** See the Regulatory Affairs Product Information Datasheet (RAPIDS) of the

product on www.ducorchem.com

16. Other Information

Further information Conforms to Regulation (EC) No 1907/2006 (REACH), Article 31.

#### Disclaimer:

The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is meant as a guideline for safe use, handling, disposal, storage and transport of products and does not imply any warranty (not implied nor explicitly) or specification. The Supplier shall to the extent permitted by law not be liable for any error or incorrectness in the information contained in this Safety Data Sheet. The information relates exclusively to the specified products, which may not be suitable for combination with other materials or use in processes other than those specifically described here.

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