

DUPONT™ 20 SPECIALTY POLYETHYLENE RESIN

Version 2.0

Revision Date 08.07.2023 Document no. 130000021028

This SDS adheres to the standards and regulatory requirements of Malaysia and may not meet the regulatory requirements in other countries.

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

DUPONT [™] 20 SPECIALTY POLYETHYLENE RESIN **Product name**

Recommended use of the chemical and restriction on use

Recommended use Polymer

Restrictions on use For manufacturing and research use only

Manufacturer, importer, supplier

Du Pont Malaysia Sdn Bhd Company

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number

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2. HAZARDS IDENTIFICATION

Product hazard classification

Not a hazardous substance or mixture.

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Other hazards

Resin particles, like other inert materials, are mechanically irritating to eyes. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Mixture

Components

Chemical Name CAS-No. Concentration >99%

Polyethylene 9002-88-4

4. FIRST AID MEASURES

Inhalation Move to fresh air in case of accidental inhalation of fumes from overheating or

combustion. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Call a physician.

Skin contact The material is not likely to be hazardous by skin contact, but cleaning the skin

> after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Obtain medical treatment for thermal burn. Wash contaminated clothing before reuse.



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Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Call a physician.

Ingestion : Not a probable route of exposure. However, in case of accidental ingestion, call a

physician.

Most important

symptoms/effects, acute

and delayed

No information available.

Protection of first-aiders : 1

: No information available.

Notes to physician

No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing

media

Water, Foam, Dry chemical, Carbon dioxide (CO2)

Specific hazards : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in

the presence of an ignition source is a potential dust explosion hazard. Pneumatic conveying and other mechanical handling operations can generate combustible

dust. To reduce the potential for dust explosions, do not permit dust to

accumulate. Material in pellet form may accumulate static charge when poured

from one container to another.

Special protective

equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

Specific extinguishing

methods

No information available.

Further information : The solid polymer can only be burned with difficulty. Evacuate personnel and keep

upwind of fire. Grounding and elimination of the static charge is recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Spilled material is a slipping hazard.

Environmental precautions

Do not discharge to streams, ponds, lakes or sewers.

Methods and materials

for containment and

cleaning up

Shovel or sweep up.

Spills of fine material should be cleaned using gentle sweeping or vacuuming.

Cleaning methods (e.g. compressed air) which can generate potentially

combustible dust clouds should not be used.

7. HANDLING AND STORAGE

Handling



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Technical measures/Precautions Before using, read the Product Data Sheet.

When opening containers, avoid breathing vapours that may be emanating. Open

container only in well-ventilated area.

Pneumatic conveying and other mechanical handling operations can generate combustible dust. Avoid significant deposits of material which may become airborne and form combustible dust clouds. Handling and processing operations

should be conducted in accordance with best practices (e.g.NFPA-654).

Precautions for safe

handling

No information available.

Storage

Suitable storage

conditions

Store in a cool, dry place. Keep container closed to prevent contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Occupational Exposure Limits	Regulation
Dust (inhalable and respirable fraction)		
TWA	10 mg/m3 (Inhalable particulate.)	MY OEL (03 2000)
	The value is for particulate matter containing no	
	asbestos and <1% crystalline silica.	
TWA	3 mg/m3 (Respirable particles.)	MY OEL (03 2000)
	The value is for particulate matter containing no	
	asbestos and <1% crystalline silica.	
TWA	3 mg/m3 (Respirable particles.)	US ACGIH (03 2014)
TWA	10 mg/m3 (Inhalable particles.)	US ACGIH (03 2014)

Engineering measures

Use sufficient ventilation to keep employee exposure below recommended limits. When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Local exhaust ventilation is preferred. Use static controls. Static charges can cause explosions in solvent and dust laden atmospheres. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics". Follow processing

recommendations on the product data sheet.

Biological occupational

exposure limits

No information available.

Personal protective equipment

Respiratory protection A respiratory protection program that meets country requirements must be

> followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Hand protection Protective gloves

Eye protection Wear safety glasses with side shields.

Wear tightly fitting chemical splash goggles and face shield when possibility exists

for eye and face contact due to spattering or splashing of molten material.



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Skin protection If there is a potential for contact with hot/molten material wear heat resistant

clothing and footwear.

No information available. Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, form, colour, etc.)

Physical state solid pellets Form Colour clear

Odour mild hydrocarbon-like

Odour Threshold No information available.

pН Not applicable

Melting point/freezing point

No information available.

Initial boiling point and boiling range

Boiling point/boiling

: Not applicable

range

Flash point 341 - 365 °C

> no data available Method: ASTM D 1929

Evaporation rate Not applicable

Flammability (solid, gas) May form combustible dust concentrations in air.

Upper/lower flammability or explosive limits

Upper explosion limit : Not applicable Lower explosion limit Not applicable

Vapour pressure Not applicable

Vapour density Not applicable

Density

No information available.

Solubility(ies)

Water solubility negligible

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature

No information available.

Decomposition

temperature

: >320 °C



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Thermal decomposition of the resin accelerates above temperature listed.

Decomposition can occur below the recommended processing temperature limit.

Decomposition is a function of both processing temperature and time at that

temperature.

Viscosity

Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable

Molecular weight : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

Polymerization will not occur.

Large molten masses may give off hazardous gases. Water quenching is good

practice.

Conditions to avoid : Temperature: > 320°C

Decomposes on heating.

At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both

processing temperature and time at that temperature.

Materials to avoid : Strong bases, and, Oxidizing agents

Hazardous : Hazardous decomposition products may include:, Carbon monoxide, Aldehydes,

decomposition products Alcohols, Organic acids, Formaldehyde, Acrolein, acetaldehydes

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Polyethylene : LD50/Rat: 7,950 mg/kg

Skin corrosion/irritation

Polyethylene : non-irritant

Serious eye damage/eye irritation

Polyethylene : non-irritant

Respiratory or skin sensitisation

Polyethylene : Not a skin sensitizer.

Germ cell mutagenicity

No information available.



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Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Specific Target Organ Toxicity

No information available.

Aspiration hazard

No information available.

Other

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No data is available on the product itself.

The substance is a polymer and is not expected to produce toxic effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute and prolonged toxicity to fish

Polyethylene : The substance is a polymer and is not expected to produce toxic effects.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

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: No data is available on the product itself. Toxicity is expected to be low

based on insolubility in water.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : Preferred options for disposal are recycling, incineration with energy recovery, and

landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local

regulations.

Contaminated packaging: Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION



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Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

16. OTHER INFORMATION

References

SDS Number: 130000021028

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The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.