ACD RotoFlo

ACD RotoFlo - Material Safety Data Sheet

MSDS for LDPE and LLDPE

Product Identification :

Trade name :	**PE-LD and PE-LLD, Alkathene, Ethylene Polymer , Ethene Polymer LDPE and LLDPE**
Chemical name :	**Polyethylene**
Chemical formula :	**- (CH2CH2)-**
CAS No :	**9002-88-4**
Emergency response guide :	**011–708–3356 (Landline)**

Hazards Identification :

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification:	**Not classified as a dangerous substance .**
Additional hazards:	**No additional remark .**
Aggravating conditions:	**No additional remark .**
Effects and symptoms:	**No known effects .**

First Aid Measures :

Inhalation:	**If dust is inhaled, remove to fresh air. Get medical attention if irritation occurs .**
Skin contact:	**NO known EFFECT on skin contact.**
Eye contact:	**NO known effect on eye contact , rinse with water for a few minutes .**
Ingestion:	**NO known EFFECT according to our database .**

Fire Fighting Measures :

Suitable:	**No additional remark.**
Hazardous thermal	
Decomposition products:	**These products are carbon oxides (CO , CO2) .**

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Unusual fire / explosion

Hazards :	**Dense smoke is emitted when this product is allowed to burn without sufficient oxygen.**
Protection of fire-fighters :	**Full suit. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.**
Special fire-fighting procedures :	**No additional remark .**
Extinguishing Media :	**SMALL FIRE : Use DRY chemical powder . LARGE FIRE : Use water spray or fog .**

Handling and Storage:

Handling:	**Do not breathe dust .**
Storage:	**No specific storage is required .**

Exposure Controls / Personal Protection :

Occupational exposure limit:	**ACGIH TLV (United States, 2003). Notes: Inhalable particles TWA: 10 mg/m3 8 hour(s). Form: Dust TWA: 3 mg/m3 8 hour(s). Form: Dust**
Engineering control measures:	**Use process enclosures, local exhaust ventilation, or other engineering controls to keep dust below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to dust below the exposure limit.**
Personal protection :	
Personal protective equipment :	
Dust respirator :	**Respiratory system**
Skin and body :	**Overalls.**
Hands Gloves :	**Wear thermal resistance gloves when working with hot or molten polymer .**
Eyes Goggles :	**If there is a potential for exposure to particles .**

Physical and Chemical properties:

Appearance:	**Solid, (Odorless solid.)**
Odour:	**Odorless.**
Flash ignition temperature:	**Closed cup: 341°C (645.8°F).**
Melting point:	**110 - 125°C (230 - 251°F)**
Density:	**0.91 - 0.94g/cm3 (20°C / 68°F)**
Solubility (water):	**Insoluble in water.**
Solubility (other):	**Soluble in Benzene and Xylene at elevated temperatures**

Stability and reactivity:

Stability:	**The product is stable.**
Conditions to avoid:	**Strong oxidizing materials**
Hazardous decomposition products:	**These products are carbon oxides (CO, CO2).**

Toxicology information:

Inhalation:	**No known significant effects or critical hazards.**
Skin contact:	**No known significant effects or critical hazards.**
Eye contact:	**No known significant effects or critical hazards.**
Ingestion:	**No known significant effects or critical hazards.**

The grade listed above complies with the regulations of the US Food and Drug Administration
(FDA) governing the use of plastic materials in contact with food as published in the *Code of Federal Regulations 21 CFR* . Compliance is claimed based on the following:
The basic polymer present in this grade is allowed in food contact applications under paragraph (a)(3)(i)(a)(1) of 21 CFR 177.1520.
The basic polymer present in this grade is suitable for cooking & non-cooking applications as specified in paragraph (c)3.2a of 21 CFR 177.1520.
All adjuvant substances added to the basic polymer are permitted by virtue of being GRAS (generally recognised as safe), having prior sanction or being explicitly approved for use under 21 CFR 170 through 189. The adjuvant substances in this grade are permitted in articles intended for use with:
- Food types I - IX as specified in Table 1 of 21 CFR 176.170
- Conditions A - H as specified in Table 2 of 21 CFR 176.170
Please note that additional restrictions might apply for various applications. Please refer to CFR 21 for more information in this regard.

Disposal considerations:

Methods of disposal :
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Transport information:

Polyethylene is not classified as a hazardous chemical and is not classified as dangerous for transporting.

Regulatory information:

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EU Regulations
Hazard symbol(s) :
Indication of Danger
Risk phrases : **Not classified according to EU.**
Safety phrases : **Not classified according to EU.**
Classification and labeling have been performed according to EU directives 67/548/EEC,
1999/45/EC including amendments and the intended use - Industrial applications.

Other information:

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.