PETROCHEMICALS

Polyethylene TIPELIN

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 5/20/2005 Revision date: 5/22/2023 Supersedes version of: 12/23/2022 Version: 5.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical type	:	Substance
Trade name	:	Polyethylene TIPELIN
Trade name	:	Polyethylene TIPELIN
IUPAC name	:	CAS: 25213-02-9 (grades made by Phillips technology); 25087-34-7 (grades made by Mitsui technology)

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : The substance has a wide range of uses such as: plastic packages, pipes/tubes, various parts for construction/building/automotive industries, sport equipment, household, etc.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MOL Petrochemicals Co.Ltd. Plc.
Ipartelep, Gyari u.
HU– 3581 Tiszaujvaros
Hungary
T +36 49 522 222 - F + 36 49 886 490
sds@tvk.hu - www.mol.hu

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Polymer
Name : Polyethylene TIPELIN

Name	Product identifier	%
Ethylene-1-hexene copolymer	CAS-No.: 25213-02-9	100
1-Butene polymer with ethene	CAS-No.: 25087-34-7	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. show the material safety data sheet or label if possible. No special precaution measures are needed.

First-aid measures after inhalation : In case of symptoms arising from inhalation of dust. Consult a doctor/medical service if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : If skin irritation occurs: Get medical advice/attention. Don't remove the melted product from the skin. Cool affected area with running water and provide medical attention. Cool affected area with running water and provide medical attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If dust particles remain in the eye, do not rub the eye as mechanical abrasion due to the dust may damage the cornea. Take victim to a doctor if irritation persists.

First-aid measures after ingestion : Do not give anything by mouth to an unconscious person. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. extinguishing powder. in case of great fire water spray or mist.
Unsuitable extinguishing media : Do not use direct water jets on the burning product.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : During the transport of the product (e.g. filling or emptying of the silos, tanks, hoppers, etc.) dust particles may be formed in the production facilities, which following its accumulation, may ignite or explode in the consequence of electrostatic charge induction. Measures against electrostatic charging are therefore needed (grounding, measures for safe electrostatic discharging) for these facilities. Dust clouds may present an explosion hazard.
Reactivity in case of fire : When contacted with flame it is combustible, but hardly inflammable.
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. fume.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so.
Firefighting instructions : Use water spray or fog for cooling exposed containers.
Protection during firefighting : In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Other information : In case of great fire, protect persons, storage facilities, and all other objects near the fire with the water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Prevent dust cloud formation. Spilled material may present a slipping hazard. Avoid contact of the melted material with the skin or eyes.

6.1.1. For non-emergency personnel

Measures in case of dust release : Do not inhale the dust.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water, or underground spaces (tunnels, cellars, etc.).

6.3. Methods and material for containment and cleaning up

For containment : Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal. Using a clean shovel, put the material in a dry container and cover without compressing it. Local regulations may also prescribe or limit actions to be taken.
Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal.
Other information : Dispose of materials or solid residues at an authorized site. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

See also item 8 (personal protective equipment) and 13 (disposal).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid dust formation. Prevent the build-up of electrostatic charge. Avoid release to the environment. The product should be kept at least 1 m from the heat sources.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store in a dry place. Protect from sunlight. Store in a well-ventilated place. Storage facilities must fulfill all fire safety requirements for buildings, and all electrical appliances must be compliant with the applicable regulations.

Storage temperature : -20 – 40 °C

7.3. Specific end use(s)

Handle in accordance with good industrial practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Handling procedures should minimize dust production. Provide adequate ventilation to minimize dust concentrations. Recommended method for monitoring of polyethylene dust in air on workplace: gravimetry and dustmeter.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Protective clothing. Electrostatic properties (EN 1149-1). Wear fire/flame resistant/retardant clothing.

Skin and body protection	
Type	**Standard**
Safety shoes	EN ISO 20345

Hand protection:
Heat resistant gloves with long cuffs, or gauntlets

8.2.2.3. Respiratory protection

Respiratory protection:
In case of inadequate ventilation wear respiratory protection. Filtering half masks to protect against particles (EN 149).

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Colourless.
Odour	:	typical paraffin.
Odour threshold	:	Not available
Melting point	:	125 – 145 °C
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not applicable
Lower explosion limit	:	100 g/m³
Upper explosion limit	:	Not applicable
Flash point	:	350 – 370 °C
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	insoluble in water. Soluble in hydrocarbons. (80 °C).
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	934 – 964 kg/m³ (23 °C)
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available
Particle agglomeration state	:	Not available
Particle specific surface area	:	Not available
Particle dustiness	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Minimum ignition energy	:	1.6 J

Bulk density : 500 – 550 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Electrostatic charges may be generated during handling.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. They may be ignited by heat, sparks, static electricity or flames.

10.5. Incompatible materials

Chlorine, fluorine, strong oxidizing agents, aromatic and chlorinated hydrocarbons, gasoline, and lubricating oils. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Polyethylene TIPELIN	
LD50 oral rat	> 3000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

12.2. Persistence and degradability

Polyethylene TIPELIN	
Persistence and degradability	This substance has no harmful effects in the environment. It is a foreign substance in the environment with very slow degradation. The degradation is mainly caused by UV irradiation. The substance is insoluble in the water.

12.3. Bioaccumulative potential

Polyethylene TIPELIN	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Polyethylene TIPELIN
PBT: not relevant – no registration required
vPvB: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Contain and dispose of waste according to local regulations.

Sewage disposal recommendations : In case of accidental spillage of the product (pellets of polymer) avoid product entering the canalization system, as it may cause mechanical blockage of the canalization system.

Waste disposal recommendations : Sweep mechanically and transport for further processing, recycling, or dispose in compliance with the relevant waste management legislation.

Additional information : In all other cases use in compliance with the relevant waste management legislation.

SECTION 14: Transport information

In accordance with ADR / IMDG / ADN / RID

ADR	RID	ADN	IMDG
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated

ADR	RID	ADN	IMDG
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
14.6. Special precautions for user			
No supplementary information available			

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Not listed on REACH Annex XVII
Not listed on the REACH Candidate List
Not listed on REACH Annex XIV (Authorisation List)
Not listed on the PIC list (Regulation EU 649/2012)
Not listed on the POP list (Regulation EU 2019/1021)
Not listed on the Ozone Depletion list (Regulation EU 1005/2009)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)
Other information, restriction and prohibition regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 and all its amendments and modifications.
Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Exempted from REACH
No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
1.-16.	All Sections	Updated	All Sections have been updated

SDS EU (REACH Annex II) MOL

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.