

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	: HIPLIX® HHM 5202; HIPLIX® HHM 5502; HIPLIX® HXM 50100; HIPLIX® TR-130; HIPLIX® TR-144; OFF GRADE granulate and powder: HIPLIX®00041OFF; HIPLIX®00042OFF; HIPLIX®00043OFF; HIPLIX®00044OFF; HIPLIX®00045OFF; HIPLIX®00047OFF; HIPLIX®00048OFF
Chemical family	: Polymer
Chemical name	: Ethylene – 1-Hexene Copolymer
CAS No	: 25213-02-9
EC No	: 607-647-3
Formula	: (C ₂ H ₄) _n
Synonyms	: High Density Polyethylene / HDPE / PE-HD / 1-Hexene, polymer with ethylene
Product group	: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category	: Industrial/Professional use
Use of the substance	: HIPLIX® HHM 5202 / HIPLIX® HHM 5502: Blow moulding of small and medium size containers; HIPLIX® HXM 50100: Blow moulding of medium and large size containers; HIPLIX® TR-130 / HIPLIX® TR-144: Tubular films extrusion.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet**1.3.1. Manufacturer**

HIP-Petrohemija a.d. Pancevo	Tel: + 381 (0) 13 307 000
Spoljnostarcevacka 82	Fax: + 381 (0) 13 310 207
26000 Pancevo	E-mail (person responsible for the SDS):
Republic of Serbia	ivana.kosovic@hip-petrohemija.rs
www.hip-petrohemija.com	

1.3.2. Only Representative

REACH Law Ltd.
Polaris Business Park
Vänrikinkuja 3 / 02600 Espoo
Finland
E-mail: SDS@reachlaw.fi
www.reachlaw.fi

1.4. Emergency telephone number

Poisoning Control Centre	: + 381 (0) 11 266 11 22 (00-24h) + 381 (0) 11 266 27 55 (00-24h) + 381 (0) 11 360 84 40 (00-24h)
* HIP-Petrohemija (available during office hours: Monday to Friday)	: + 381 (0) 13 30 77 77 (08-16h)
* European Emergency Number	: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

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

Substance does not meet the criteria for labelling in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

Other information : No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance name	Product identifier	% (w/w)	Classification according to Regulation (EC) No 1272/2008 [CLP]	Note
Ethylene – 1-Hexene Copolymer	(CAS No) 25213-02-9 (EC No) 607-647-3	99,7 – 99,9	Not classified	
Additives	Mixtures	0,1 – 0,3	Not classified	[1]

Note: Contains no other components or impurities which will influence the classification of the product.

EU Inventory: Additives listed on European Inventory of Existing Chemical Substances (EINECS). The product is a polymer, following the European regulation, registration on the EINECS inventory is not required.

[1] Slip agent and antioxidants

3.2. Mixture

Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Product is not harmful to human health or to aquatic life in the form it is placed on the market. Spilled product may cause dangerous slipping hazard. Under fire conditions product will readily burn and emit a heavy, irritating smoke. Accumulated fine dust may form combustible air-dust mixture and cause mechanical irritation of skin, eyes and respiratory system. Contact with molten material may cause serious thermal burns. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

First-aid measures after inhalation

: Move affected individual to non-contaminated air. If breathing is difficult, qualified personnel may give oxygen or assisted ventilation. Seek immediate medical attention if the individual is not breathing, is unconscious or if any other symptoms persist. Inhalations of smoke following a fire may result in delayed pulmonary edema.

First-aid measures after skin contact

: In case of contact with molten material, immediately flush skin with plenty of cold water. Do not remove solidified product from the skin. Obtain immediate emergency medical attention if burn is deep or extensive.

First-aid measures after eye contact

: Remove contact lenses, if any. Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Seek medical attention if symptoms develop or persist.

First-aid measures after ingestion

: Ingestion is not considered a potential route of exposure - material is not expected to be absorbed from the gastrointestinal tract. **DO NOT INDUCE VOMITING.**

Advice for a doctor

: Provide oxygen. Treat burns or allergic reactions conventionally after decontamination.

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

Following inhalation

: Inhalation of dust may irritate the respiratory tract which may cause coughing and

sensation of shortness of breath. Prolonged inhalation of high doses of decomposition products may give headache or dizziness.

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

Immediate medical attention : In case of any unwanted reaction or inconvenience, call Poison Control Centre or a doctor and seek medical attention.
See Subsection 1.4, *Emergency telephone number*.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : LARGE FIRE: Use water spray or fog to control fire fumes.
SMALL FIRE: Dry chemical. Foam or carbon dioxide.

Unsuitable extinguishing media : DO NOT use direct water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Polymer will burn but does not easily ignite. Keep container closed. Prevent dust accumulations and dust clouds.

Explosion hazard : Dust may form explosive dust-air mixture.

Hazardous combustion products : Carbon monoxide, olefinic and paraffinic compounds, traces amounts of organic acids, ketones, aldehydes and alcohols may be formed.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus. Clothing for fire-fighters (including helmets, protective boots and gloves) will provide a basic level of protection.
See section 6, *Accidental release measures*.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation.

For emergency personnel : Wear appropriate personal protective equipment (PPE) and clothing during cleanup. Individuals without appropriate protective equipment should be excluded from area of spill until cleanup has been completed.

6.2. Environmental precautions

Land spillage : Prevent waste from contaminating the surrounding environment. In case of accidental spillage of the product, prevent product entering the canalization system, as it may cause mechanical blockage.

Spillages in water or at sea : Prevent entry into underground and confined spaces, water intakes and waterways. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, isolate and contain spill.

Methods for cleaning up : Vacuum or sweep up spill immediately to prevent slipping accidents, potentially causing falls and serious injury. Use appropriate non-sparking tools to put the spilled solid in an appropriate disposal or recovery container. Reuse or recycle if possible.

6.4. Reference to other sections

See Section 7, *Handling and storage*. See Subsection 8.2, *Exposure controls*. See Section 13, *Disposal considerations*.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, sparks, flame or any ignition source. During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Provide adequate ventilation.

Hygiene measures : Wear appropriate personal protective equipment. Avoid prolonged exposure. Avoid inhalation. Avoid contact with the skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Safe storage : Store in dry, well-ventilated area at ambient temperature and at atmospheric pressure in original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminium, stainless steel).

Incompatibilities : Do not store near highly flammable materials. Store away from excessive heat and away from strong oxidizing agents. Prolonged storage preferably out of the sun or other sources of radiation.

7.3. Specific end use(s)

Used in different type of industry.

See subsection 7.1, Precautions for safe handling.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure limit values (Workplace Exposure Limits)

HIPLEX (25213-02-9)	TWA / respirable particles	TWA / inhalable particles	TWA / total dust
ACGIH	3 mg/m ³	10 mg/m ³	/
OSHA	5 mg/m ³	/	15 mg/m ³

Note: Respirable and inhalable particles, total dust. Product is pellets, not a dust or finely divided particle.

8.1.2 Relevant DNELs/PNECs threshold levels

DNEL
No data available.

PNEC
No data available.

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.

* **Eye protection** : Chemical goggles or safety glasses (EN 166). Use chemical resistant gloves appropriate to conditions of use. Wear heat protective gloves and clothing if there is a potential for contact with heated material.

* **Hand protection** : Wear protective gloves (EN 374). Wear heat protective gloves and clothing if there is a potential for contact with heated material.

* **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment (EN 137). Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. In case of insufficient ventilation, where atmosphere exceeds recommended limits, wear suitable respiratory equipment.

Thermal hazard protection : Wear thermal protective clothing, when necessary. Wear suitable protective clothing, such as long sleeves or a lab coat.

Environmental exposure controls : Contain spills. Prevent releases. Ensure all national/local regulations are observed.

Other information : Avoid all unnecessary exposure. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state : Solid

Form : Granulate / Powder

* **Colour** : Natural

* Odour	: Odourless
Odour threshold	: Not applicable.
pH	: Not applicable.
Melting point	: > 140°C
Boiling point	: No data available.
Flash point	: No data available.
Flammability range	
Flammability limit- lower	: No data available.
Flammability limit - upper	: No data available.
Auto-ignition temperature	: > 340°C
* Relative density (Water=1)	: 0,949 – 0,953 (at 23°C)
Solubility in water	: Insoluble.
Vapour pressure	: Not applicable.
Evaporation rate	: Not applicable.
Partition coefficient (n-octanol/water)	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.

9.2. Other information

Additional information : No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of storage and use.
See Section 7, Handling and storage.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur. See Section 7, Handling and storage.

10.4. Conditions to avoid

Keep away from heat, sparks, open flames. Avoid contact with with strong oxidizing agents. Organic solvents, ether, gasoline, lubricating oils, chlorinated hydrocarbons and aromatic hydrocarbons may react with and degrade material. See Section 7, Handling and storage.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents, acids, halogens.
See Section 7, Handling and storage.

10.6. Hazardous decomposition products

Dependent on process conditions (temperature, pressure, time, O₂) and may emit various bloomers, waxes and oxygenated hydrocarbons as well as carbon dioxide, carbon monoxide and small amounts of other organic vapours (e.g. aldehydes, acrolein). Inhalation of these decomposition products may be hazardous.
See Section 5.2, Special hazards arising from the substance or mixture.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Not classified. Based on available data, the classification criteria are not met. pH: Not applicable.

Serious eye damage/irritation	: Not classified. Based on available data, the classification criteria are not met. pH: Not applicable.
Respiratory or skin sensitisation	: Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	: Not classified. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

HIPLEX (25213-02-9)

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2 Persistence and degradability

HIPLEX (25213-02-9)

Long-term sunlight exposure may damage the product surface. No significant biodegradation is expected.

12.3 Bioaccumulative potential

HIPLEX (25213-02-9)

Partition coefficient (n-octanol/water)	Non-bioaccumulative.
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12.4 Mobility in soil

HIPLEX (25213-02-9)

Mobility in soil	The product is inert.
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12.5 Results of PBT and vPvB assessment

HIPLEX (25213-02-9)

Results of PBT assessment	Substance does not meet the criteria for PBT or vPvB in accordance with REGULATION (EC) No 1907/2006, Annex XIII.
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12.6 Other adverse effects

HIPLEX (25213-02-9)

Effect on ozone layer	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
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Effect on the global warming	No known effects from this product.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal recommendations	: If discarded after use, this polymer does not meet the definitions of hazardous waste. Preferred disposal method for polymer in order of preference is: clean and reuse if possible, recover and resale through plastic recyclers or resin brokers, incinerate with waste heat recovery and landfill. Reuse, recycling, storing, transportation and disposal must be in accordance with applicable national and local regulations. DO NOT ATTEMPT TO DISPOSE OF BY UNCONTROLLED
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INCINERATION.

Additional information

: Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

SECTION 14: Transport information

In accordance with **ADR / IMDG / IATA / ADN/ RID**:

14.1. UN number

UN number : None.

14.2. UN proper shipping name

Proper Shipping Name : POLYETHYLENE, NOT REGULATED

14.3. Transport hazard class(es)

Transport hazard class(es) : Not controlled under ADR / IMDG / IATA / ADN/ RID
 Danger labels : None

14.4. Packing group

Packing group : Not applicable.

14.5. Environmental hazards

Dangerous for the environment : No
 Marine pollutant : No

14.6. Special precautions for user

Special precautions for user : No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

Note: The product is not classified as a dangerous good under transport regulation. Further information about transport system may be obtained from the sales authorized representative or customers service. Transportation companies are responsible to follow all current laws, regulations and instructions which refer to this product transport.

SECTION 15: Regulatory information

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

- According to Annex XVII of the REACH Regulation (EC) No 1907/2006, Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: **Not listed.**
- According to Article 59(10) of the REACH Regulation (EC) No 1907/2006, Candidate List of SVHC for Authorisation: **Not listed.**
- According to Annex XIV List of the REACH Regulation (EC) No 1907/2006, List of substances subject to authorisation: **Not listed.**
- According to Annex I DIRECTIVE 2012/18/EU, Dangerous substances covered by the hazard categories: **Not listed.**

15.2. Chemical safety assessment

Chemical safety assessment does not need to be carried out for this product.

SECTION 16: Other information

Indication of changes

: Asterisk in the left hand margin indicate an amendment from the previous version.

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice

: THE PRODUCT IS RESTRICTED TO PROFESSIONAL USAGE ONLY and must be handled in accordance with good industrial hygiene and safety procedures. Ensure that all relevant regulations are followed.

Abbreviations and acronyms:

SDS : Safety Data Sheet
 UN : United Nations
 EU : European Union
 EC : European Community
 CAS No : Chemical Abstract Service number



EC No (EINECS)	: European Inventory of Existing Commercial Chemical Substances (European Chemical number: EINECS, ELINCS or NLP)
ELINCS	: European List of Notified Chemical Substances
NLP	: No-Longer Polymer
CLP	: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
ECHA	: European Chemicals Agency
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
PBT	: Persistent, Bioaccumulative and Toxic substance/mixture
vPvB	: Very Persistent and very Bioaccumulative substance/mixture
w/w	: Percent by mass
TWA	: Time Weighted Averages
DNEL	: Derived No Effect Level
PNEC	: Predicted No Effect Concentration
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	: European Agreement concerning the International Rule for Transport of Dangerous Goods by Rail
ADN	: European Agreement concerning the International Carriage of Dangerous Goods by inland Waterways
IMDG	: International Maritime Dangerous Goods
IATA	: International Air Transport Association
MARPOL	: International Convention for the Prevention of Marine Pollution from Ships
IBC	: International Bulk Chemical Code
ACGIH	: American Conference of Governmental Industrial Hygienists
OSHA	: Occupational Safety and Health Administration

The information and recommendations provide in this document are based on our current knowledge, information and experience at the date of its publication, and their purpose is to present prevention and safety measures in relation to this product. The information given is designed only as a guidance for safe handling, use, processing, storage, transport and disposal. All given information refer only to the product in the form it is supplied. It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

Users are obliged to have their activities harmonized with national, regional and local regulations, which are subject to modifications, and may differ depending on location/state. Users are responsible for handling, storage and manipulation in accordance with effective laws and regulations as required to provide health and safety at work and environmental protection. Since the use of this information and the conditions of use are not within the control of HIP Petrohemija, it is the user's obligation to determine the conditions of safe use of the product.

This version supersedes and replaces all previous versions.