

PCR LDPE / LLDPE Regranulate Natural Color

Product Code: 081101

Drawn up in accordance with Commission Regulation (EU) No 2020/878 of June 18, 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

SECTION 1: IDENTIFICATION OF THE SUBSTANCE	
Product identifier	Homogeneous regranulate colorless
Relevant identified uses of the substance or mixture and uses advised against	Identified uses: Regranulate used for film blowing and production of other LDPE and LLDPE plastic products.
	Uses advised against: Other than those indicated above

SECTION 2: RISK IDENTIFICATION	
Classification according to Regulation (EC) No 1272/2008:	
Hazards due to physicochemical properties:	The mixture is not classified as hazardous due to physicochemical properties.
Health hazards:	The mixture is not classified as hazardous to health.
Environmental hazards:	The mixture is not hazardous to the environment. Under normal conditions of use, no effects on the environment are known or anticipated.
Label elements	
Pictogram	Not applicable
Signal word	No warning slogan applies
Hazard statement(s) (H)	Not applicable
Precautionary statement(s) (P)	Not applicable



In molten state [hot product] in contact with
skin and eyes may cause severe burns.
Ingestion of a small amount should not pose
a hazard Substances contained in the
product do not meet the PBT or vPvB
criteria according to Annex XIII of the
Regulation PBT substances (persistent,
bioaccumulative and toxic substances)
vPvB substances (substances with very
high persistence and very high
bioaccumulation potential) REACH. The
product does not contain substances on the
list established in accordance with Article 59
(1) for endocrine disrupting properties or
substances identified as having endocrine
disrupting properties in accordance with the
criteria set forth in Commission Delegated
Regulation (EU) 2017/2100 (3) or
Commission Regulation (EU) 2018/605 in
concentrations equal to or greater than
0.1% by weight.

SECTION 3: COMPOSITIO INFORMATION Substances Mixtures	N / INGREDIEN	NT	Not applica	ble on according to Reg	gulation (EC)
Identification numbers	Chemical name	Mass fractio n in %	Pictogram, signal word codes	Danger class and category codes	Codes for hazard statements
CAS: 9002-33-7 EC (EINECS): Polymer Index number: REACH number: [1].	Polythene	About 50%	-	the substance is not classified as hazardous	-
CAS: 25087-34-7 EC (EINECS): Polymer Index number: REACH number: [1]	1-butene, polymer with ethene	About 50%	-	the substance is not classified as hazardous	-



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[1] Applicable registration number: Substance exempted from registration under Article 2(9) of REACH (polymer). Monomers of [ethylene/ethylene] substance exempted from registration under Article 2(7d) of REACH (recovered substance). Information required under Articles 31 or 32 of REACH relating to a substance that has been registered in accordance with Title II [monomer] is available to the recoverer.

The full wording of the H-phrases is given in section 16 of the Technical Data Sheet.

SECTION 4: FIRST AID MEASURES	
First aid	Seek medical advice if symptoms increase.
In case of skin contact	In case of contact with liquid product, cool the burnt area immediately with cold water. Contact a doctor if worrying symptoms occur.
In contact with eyes	Rinse with plenty of cool water, preferably running water, for at least 15 minutes. Remove contact lenses. Avoid strong jets of water due to the risk of mechanical damage to the cornea. If irritation persists, consult an ophthalmologist.
In case of ingestion	If a large amount is swallowed, do not induce vomiting. Rinse mouth with plenty of water. Never put anything into the mouth of an unconscious person Consult a doctor.
Inhalation	In case of exposure to molten product vapours, provide fresh air and keep warm and at rest. Consult a doctor if symptoms persist.
Most important symptoms and effects, both acute and delayed	
On contact with eyes	During treatment: redness, tearing, burning, mechanical irritation or irritation due to exposure to treated product vapours. In molten state [hot product] in contact with eyes may cause severe burns.
When swallowed	Ingestion of a small amount should not pose a hazard.



In contact with skin	Mechanical irritation. Hot product may cause burns.
After inhalation	During processing: Mechanical irritation, coughing, respiratory irritation due to exposure to vapours of the processed product.
Indication of any immediate medical attention and special treatment needed	The decision on treatment is made by the doctor after a thorough assessment of the injured person's condition.

SECTION 5: FIRE FIGHTING MEASURES	
Extinguishing agents	Product melts when exposed to temperature Suitable extinguishing media: Extinguish a small fire with a snow extinguisher (CO2) or powder extinguisher (ABC or BC), extinguish a large fire with foam or, as a last resort, with dispersed water currents. Unsuitable extinguishing media: Caution: do not apply compact jets of water to the surface of burning polyethylene. This will cause scattering of the burning substance and spread of fire outbreaks. Cool containers exposed to fire or high temperatures with water and remove from the affected area if possible.
Special hazards associated with the substance or mixture	During combustion, mainly carbon dioxide and water vapor are emitted. The product melts under the influence of temperature. Combustion is accompanied by smoke and combustion products of technological additives. The molded parts or hard regranulate burn slowly with low smoke concentration, burning droplets and with the release of carbon monoxide and organic substances.
Information for firefighters	Use personal protective equipment appropriate to the fire. Follow normal firefighting procedures. Wear appropriate chemical resistant protective clothing and self-contained breathing apparatus in the
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fire area. In case of fire, cool endangered containers with water. Do not allow leakage into surface or ground water.

SECTION 6: HANDLING IN CASE OF UNINTENTIONAL RELEASE INTO THE ENVIRONMENT	
Personal precautions, protective equipment and emergency procedures	For non-emergency personnel: Restrict unauthorized access to the accident area until appropriate cleanup operations are completed. For large spills, isolate the affected area. Avoid direct contact with the releasing product. Avoid inhalation of vapors. Use personal protective equipment. Avoid contact with eyes and skin. Ensure adequate ventilation. Beware of spilled granules, may cause slipping and falling. For emergency responders: Ensure that only trained personnel carry out the removal of the accident and its consequences. Use personal protective equipment.
Precautions for environmental protection	In the event of a significant spill of the product, take appropriate measures to avoid spreading into the environment. Notify the responsible emergency services.
Methods and materials to prevent the spread of contamination and for disposal of contamination	Sweep up the spilled substance and place in suitable containers (suitable bags) or clean containers. Treat the collected material as waste.
References to other	Personal protective equipment in Section 8. Dispose of as recommended in Section 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES AND THEIR STORAGE	
Precautions for safe handling	Ensure adequate ventilation. Ensure that there is no release into the environment when handling the product. Prevent the



	product from entering the sewage system, surface and ground water and soil. Work in accordance with safety and hygiene rules. Use personal protective equipment. Do not eat, drink or smoke during use. Wash hands during breaks and after finishing work.
Conditions for safe storage, including information on any incompatibilities	Store in original, properly labeled containers, in dry areas. Do not expose the material to prolonged storage at temperatures above 80°C and/or UV rays. Do not store or use with incompatible materials (see subsections 10.3-10.5). Do not store together with foodstuffs and animal feed.
Specific end use(s)	See SDS Section 1.2 No information on other uses

SECTION 8: EXPOSURE CONTROL / PERSONAL	
PROTECTIVE EQUIPMENT	
Control parameters	PL: dusts not classified for toxicity
	NDS - inhalable fraction 10mg/m3
	Legal basis: Ordinance of the Minister of
	Family, Labour and Social Policy of 12 June 2018 on the maximum permissible
	concentrations and intensities of harmful
	factors for health in the working environment Journal of Laws 2018.1286 of
	2018.07.03 as amended[Journal of Laws
	2020.61, dated 17.01.2020]. Ordinance of
	the Minister of Development, Labour and
	Technology of 18 February 2021 amending the Ordinance on the maximum permissible
	concentrations and intensities of factors
	harmful to health in the working
	environment [Journal of Laws 2021, item 325].
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	Regulation of the Minister of Health of 2 February 2011 on tests and measurements
	of harmful factors for health at work (Journal



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	of Laws No. 33, item 166, 2011; amended
	by Journal of Laws 2022.2662).
	DNEL/PNEC: No data available
Recommended monitoring procedures	Procedures for monitoring concentrations of
	hazardous components in air and
	procedures for control of air cleanliness in
	the workplace should be applied - if
	available and justified at the workplace - in
	accordance with relevant Polish or
	European Standards taking into account the
	conditions prevailing at the place of
	exposure and appropriate measurement
	methodology adapted to the working
	conditions. The mode, type and frequency
	of tests and measurements should meet the
	requirements contained in the Ordinance of
	the Ministry of Health of 2 February 2011.
	(Journal of Laws 2011 No. 33, item 166).
Exposure controls	Relevant technical control measures
	Necessary local exhaust ventilation and
	general ventilation of the room during
	production process
	Individual protection measures, such as
	Individual protection measures, such as personal protective equipment
	personal protective equipment
	When the concentration of the substance
	posing a risk is established and known,
	personal protective equipment should be
	selected taking into account the
	concentration of the substance present in
	the work place, the length of exposure, the
	activities carried out by the worker and the
	recommendations given by the
	manufacturer of the personal protective
	equipment. In an emergency situation or
	when the concentration of the substance in
	the workplace is not known, use personal
	protective equipment isolating the body
	(gas-tight suit combined with isolating
	respiratory protective equipment). Industrial
	hygiene: General industrial hygiene



regulations apply. Remove contaminated clothing at the end of work. Wash hands and face before breaks. Do not eat, drink or smoke while working. Keep suitable fire extinguishing agents in close proximity to the work area if heat treatment or high temperature processes are required. Hand and body protection Use protective gloves against mechanical and thermal hazards and work boots and clothing. Use protective aprons and special footwear when handling the product thermally. The resistance of the glove materials must be checked before use. The permeation time of the glove must be obtained from the glove manufacturer and such time must be observed. It is recommended to change gloves regularly and to replace them immediately if there are any signs of wear, damage (tears, perforations) or changes in appearance (colour, elasticity, shape) Eye protection Safety goggles recommended if there is a danger of eye contamination.. Respiratory protection Not required if properly ventilated. In case of working in confined spaces and risk of dust formation, wear a mask with dust filter (type P). Ventilation should be installed wherever melting of the material, grinding or processing of the product takes place, any processes involving the generation of high temperatures (e.g. extrusion) Prevent entry into municipal water and Control of environmental exposure sewer systems and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine compliance with the requirements of environmental legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	Solids Regranulate
Colour	Transparent
Odour	Characteristic of the product
Melting/freezing point	100-130 °C
Boiling point and boiling range:	No data available
Flammability of materials	Product burns slowly but does not ignite easily
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature [gases, liquids]	>300 °C
Decomposition temperature	No data available
рН	No data available
Kinematic viscosity [mm2 /s]	Not applicable [solid]
Solubility	Insoluble in water, soluble in xylene at ca.70°C
Partition coefficient: n-octanol/water	No data available
Vapour pressurepary	No data available
Relative density	0.918 g/cm3 [PN-92/C-89035]
Relative vapour density	No data available
Particle characteristics [solids]	granulate
Information on physical hazard classes	No data available
Other safety properties	No data available

SECTION 10: STABILITY and RESPONSIVENESS	
Reactivity	The product is chemically reactive towards all liquids except hydrofluoric acid.



The product is stable under normal
conditions of use and storage.
No dangerous reactions known.
Avoid direct sunlight.
Strong oxidisers
See section 5 of the safety data sheet for hazardous combustion products
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SECTION 11: TOXICOLOGICAL INFORMATION	Information on hazard classes as defined in Regulation (EC) No 1272/2008
Supplementary information	The product is not classified as hazardous to health. See section 2 Hazard identification. Inhalation of its dust may cause respiratory irritation. In its molten state in contact with skin and eyes it can cause severe burns. If processed at high temperatures, its vapours may irritate the respiratory organs and eyes. Ingestion of a small amount should not pose a risk.
Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Based on available data, the classification criteria are not met In molten state in contact with skin may cause severe burns
Serious eye damage/irritation	Based on available data, the classification criteria are not met. When molten in contact with the eyes, it may cause serious damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met
Carcinogenic effect	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met



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Reproductive toxicity	Based on available data, the classification criteria are not met
Toxic effects on target organs - single exposure	Based on available data, the classification criteria are not met
Toxic effects on target organs - repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met Information on likely routes of exposure In contact with eyes: During processing: redness, tearing, burning, mechanical irritation or irritation due to exposure to vapours of the processed product. In molten state [hot product] in contact with eyes may cause severe burns. When swallowed: Ingestion of a small amount should not pose a hazard. In contact with skin: Mechanical irritation. Hot product may cause burns. After inhalation: During processing: Mechanical irritation, coughing, respiratory irritation due to exposure to vapours of the processed product.
Information on other hazards	Endocrine disrupting properties: The components of the mixture have no endocrine effects according to the assessment criteria of Regulations: (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605 Other information: Not known

SECTION 12: ENVIRONMENTAL INFORMATION	
Toxicity Acute toxicity of the mixture	The mixture is not hazardous to the environment. Under normal conditions of use, no environmental effects are known or anticipated. To minimise long-term global pollution, consider:



	 Reducing the use of disposable products and packaging Participate in recycling activities Do not allow product to enter water, sewage or soil
Persistence and degradability	The product decomposes slowly when exposed to UV light.
Bioaccumulative potential	The mixture is not liable to bioaccumulation.
Mobility in soil	The product is not soluble in water therefore its mobility in soil is low. The mobility of the substance depends on its hydrophilic and hydrophobic properties and abiotic and biotic conditions of the soil, including its structure, climatic conditions, season of the year (in Poland, temperate variable climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).
Results of PBT and vPvB assessment	Does not meet PBT and vPvB criteria
Endocrine disrupting properties	The ingredients of the product are not included in the list established in accordance with Article 59(1) as having endocrine disrupting properties nor is the ingredient with endocrine disrupting properties according to the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in concentrations equal to or greater than 0.1%
Other adverse effects	The possibility of other adverse effects of the individual components of the mixture on the environment (e.g. endocrine disrupting capacity, effect on increasing global warming) should be considered).

SECTION 13: WASTE TREATMENT	
Waste disposal methods	Advice on the product: dispose of in
	accordance with the regulations in force. Do
	not dispose of with municipal waste. Store



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_	residue in original containers. Recycling
	recommended if possible.
	Recommendations for used packaging:
	Recovery/recycling/disposal of packaging
	waste should be carried out in accordance
	with current legislation. Only completely
	emptied packaging is suitable for recycling.
	Determine the waste code at the place of
	manufacture.
	Legal basis: EU legal acts: Directives of the
	European Parliament and of the Council:
	2008/98/EC as amended, 94/62/EC as
	amended.
	amended.
	National legal acts: on waste Journal of
	Laws2013, item 21 with subsequent
	amendments., On the management of
	packaging and packaging waste Journal of
	Laws 2013, item 888 as amended.

SECTION 14: TRANSPORT INFORMATION	
UN number or ID number	The product is not subject to the regulations on the carriage of dangerous goods contained in ADR (road transport), RID (rail transport), IMG (sea transport), ICAO/IATA (air transport)
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Environmental hazards	The product does not pose a risk to the environment according to the criteria of the UN Model Regulations.
Special precautions for user	No special precautions
Sea transport in bulk according to IMO instruments	Not applicable



SECTION 15: INFORMATION CONCERNING LEGAL REGULATIONS

Safety, health and environmental regulations specific to the substance or mixture Other Regulations

- 1.1907/2006/WE Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Establishing a European Chemicals Agency, Amending Directive 1999/45/EC and Repealing Council Regulation (EEC) No 793/93 and No 1488/94, as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 2. 1272/2008/WE Regulation of the European Parliament and of the Council of December 16, 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006.
- 3. Ordinance of the Minister of Health of April 20, 2012 on the labeling of packages of hazardous substances and hazardous mixtures and some mixtures (Dz.U. 2012 no. 0 item 445). Consolidated text Journal of Laws 2015 item 450.
- 4. Ordinance of the Minister of the Family, Labor and Social Policy dated June 12, 2018 on the maximum permissible concentrations and intensities of harmful factors for health in the work environment Dz.U.2018.1286 dated 2018.07.03
- 5. Law of November 24, 2017 on amendments to the Law on Waste and certain other laws Journal of Laws 2017 item 2422
- 6. Act of October 12, 2017 on amendments to the Law on Packaging and Packaging Waste Management and certain other laws Journal of Laws. 2017 item 2056

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_	7. Law on transportation of dangerous goods dated August 19, 2011 (Journal of Laws 227; item 1367) Consolidated text Journal of Laws 2020 item 154,875
Chemical safety assessment	The supplier has not performed a chemical safety assessment. No safety report is required for the mixture.

SECTION 16: OTHER INFORMATION

Other sources of data:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

National regulations, other regulations, limitations and prohibitive regulations:

The information provided in this Material Safety Data Sheet has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. SINOX takes no responsibility for inappropriate use, processing and handling by purchasers and users of the

product. The data provided here is applicable only to the Product sold by SINOX and not to products sold by others. It relates only to the Product and does not relate to its use in

combination with any other product or material or in any process. Local laws and regulations and conditions of use and suitability of the product for particular uses are beyond the control of SINOX; all risks of use, storage, handling, transportation and disposal of the Product are therefore assumed by the user and SINOX expressly disclaims all warranties of every kind and nature, including warranties of merchantability



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and fitness for a particular purpose in respect to the use or suitability of the Product.

SINOX shall not be responsible for any damage or injury resulting from abnormal use of the Product, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the Product. Appropriate warnings and safe handling procedures should be provided to all handlers and users.

Classification and procedures used to classify the mixture according to the regulation (EC) 1272/2008 [CLP]

The product is not classified as dangerous

H-phrases (indicating the type of hazard) used in section 2 and 3 of the safety data sheet No phrases

Explanation of acronyms and abbreviations	
CEN	European Committee for Standardisation
C&L	Classification and marking
CLP	Regulation on classification, labeling and packaging; Regulation (EC) No. 1272/2008
CAS	Numer Chemical Abstract Service
СОМ	The European Commission
CMR	Carcinogenic, mutagenic or toxic to reproduction agent
CSA	Chemical safety evaluation
CSR	Chemical security report
DMEL	Derivative level resulting in minimal changes
DNEL	Derivative level of unchanged



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DPD	Dangerous Preparations Directive 1999/45/EEC
DSD	Directive on hazardous substances 67/548/EEC
EC	The European Commission
EC50	The average effective concentration of
ECB	Office of Chemicals
ECHA	ECHA European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS	European list of existing substances of commercial interest
ELINCS	European list of notified chemical substances
EN	European standard
EU	European Union
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IC50	Concentration causing 50 percent inhibition of a given parameter
IUCLID	International Unified Database of Chemicals
IUPAC	International Union of Pure and Applied Chemistry
LC50	Average lethal concentrations
LD50	Average lethal dose
MSDS	Material Safety Data Sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Predicted environmental concentrations



PNEC(s)	Predicted no-effect concentration in the environment
PPE	Personal protective equipment
REACH	Regulation (EC) No. 1907/2006 on registration, evaluation, authorization and restriction of chemicals
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Toxic effects on target organs
(STOT)	RE Repeated exposure
(STOT)	SE Single exposure
SVHC	Substances of particularly high concern
vPvB	[Substances] very persistent and very bioaccumulative
UN numer	Material identification number according to the ADR agreement
ADR	International Convention on the Carriage of Dangerous Goods and Cargoes by Road
RID	Regulations for the International Carriage of Dangerous Goods by Rail)
IMGD	The International Dangerous Goods Code
IATA	International Association of Air Carriers
ICAO	International Civil Aviation Organization
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
Ems	Emergency response procedures for ships carrying dangerous goods
NDS	Maximum workplace concentration limit (TLV-TWA) (OEL-TWA) (PEL-TWA)



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NDSCh	Maximum transient concentration (TLV-STEL)
NDSP	The maximum allowable ceiling concentration (TLV-CL)

Training courses:

Before working with the product, the user should familiarize himself with health and safety rules for handling chemicals and, in particular, receive appropriate job training.