

SAFETY DATA SHEET

Global multi-region format (EU/UK/US/CA & other GHS jurisdictions)

Easypurge CT301 – Concentrated purge compound (modified polyolefin base + mineral filler)

Revision date: 08/11/2025

Version: 2.0 (Global)

Regulatory bases covered (template):

- **EU / EEA:** Regulation (EC) No 1907/2006 (REACH) as amended by Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 (CLP).
- **United Kingdom:** GB REACH; GB CLP (EU-derived).
- **United States:** OSHA Hazard Communication Standard, 29 CFR 1910.1200 (GHS aligned).
- **Canada:** Hazardous Products Act and Hazardous Products Regulations (WHMIS 2015, GHS aligned).
- **Other GHS jurisdictions:** To be checked and adapted to local legal references as needed.

IMPORTANT: This SDS is issued in English as a **multi-country base document**. Local language and country-specific legal references may be required for placing the product on individual markets.

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

1.1 Product identifier

- Product name: **Easypurge CT301**
- Product code: **CT301**
- Product type: **Mixture** (solid, pellets)
- UFI (EU/UK where applicable): **Not assigned**

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

- Identified uses:
 - **Concentrated purging compound** for cleaning thermoplastic injection moulding, extrusion and blow-moulding equipment.
 - Specially designed for **lines processing both polar and non-polar polymers**, e.g. PA, EVOH, PET, as well as polyolefins.
- Uses advised against:
 - Use as a constituent of consumer products or final articles.

- Use outside the recommended processing temperature range (approx. **180–280 °C**, adjusted to the host polymer).
- Any use other than industrial/professional purging of thermoplastic processing equipment.

1.3 Details of the supplier of the safety data sheet

- Company: **Qootzeer Innovation Lab S.L.**
- Address: Av. Real de Pinto 162, Nave N6, 28021 Madrid, Spain
- Phone: **+34 685 632 435**
- E-mail of competent person (SDS): **info@easypurge.com**

For US/Canada distributors, insert local contact details here if different.

1.4 Emergency telephone number

- Manufacturer emergency number: **+34 685 632 435** (business hours 09:00–18:00 CET, English/Spanish).
- EU/UK: Call local **Poison Centre / emergency services (112)**.
- US/Canada: Call **911** in case of acute emergency and/or local Poison Control Centre.
- Other countries: Contact local emergency number and Poison Centre as per national system.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

EU / UK (CLP):

- Not classified as hazardous according to Regulation (EC) No 1272/2008.

OSHA (US) / WHMIS (CA) / Other GHS systems:

- Product in solid pellet form is generally considered **non-hazardous** under GHS.
- **Combustible dust hazard** may apply when fines are generated (e.g. grinding, mechanical abrasion).

2.2 Label elements

EU / UK label (CLP):

- Pictograms: *None*
- Signal word: *None*
- Hazard statements: *None*
- Supplemental information (recommended):

- *May form combustible dust-air mixtures when finely divided.*
- *Molten material may cause thermal burns.*

US / Canada (GHS / WHMIS):

- Pictograms: *None required in supplied solid form*
- Signal word: *Warning* (when addressing combustible dust in relevant workplaces)
- Hazard statement (OSHA HCS/WHMIS, where applicable):
 - *May form combustible dust concentrations in air.*
- Supplemental statements:
 - *Hot molten material can cause thermal burns.*
 - *Spilled pellets may create a slipping hazard.*

2.3 Other hazards

- No ingredients present at $\geq 0.1\%$ are known to meet the criteria for **PBT or vPvB** (REACH Annex XIII) or to be identified as **endocrine disruptors** according to current EU criteria.
- Not supplied in **nanofom** as defined under REACH; any particulate generation occurs only as secondary dust from handling pellets.
- Spilled pellets can cause **slips and falls**.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable – mixture.

3.2 Mixtures

Polymer-based masterbatch containing modified polyolefin resins, inorganic mineral fillers and functional additives for film/deposit release and wetting of polar residues.

SDS-CT301_EN

Typical composition (ranges expressed for formulation protection):

Component group	Typical content (% w/w)	GHS / CLP classification	Notes
Polyolefin resins and modified thermoplastic polymers	< 70 %	Not classified	Base matrix for purge
Inorganic additives (mineral fillers)	≤ 30 %	Not classified	Controlled-action micro-scrub

Component group	Typical content (% w/w)	GHS / CLP classification	Notes
Resin additives (lubricants and stabilisers)	< 10 %	Not classified or below cut-off limits	Processing aids
Other additives	< 5 %	Not classified or below cut-off limits	Proprietary

No intentionally added substances classified as hazardous to health or the environment are present at or above disclosure thresholds required under:

- REACH Annex II (EU/UK),
- OSHA HCS (US),
- WHMIS HPR (CA),
- or typical GHS-based national regulations.

SECTION 4: First aid measures

4.1 Description of first aid measures

- **General:** If symptoms persist, seek medical advice and show this SDS.
- **Inhalation:** Move person to fresh air. If breathing difficulties occur due to dust or process fumes, get medical attention.
- **Skin contact (cold material):** Wash with soap and water. Seek medical attention if irritation occurs.
- **Skin contact (molten material):** Immediately cool affected area with plenty of **cold water**. Do **not** attempt to peel polymer from skin or remove adhered clothing. Cover with sterile dressing and seek **immediate medical attention**.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention if large quantities have been ingested or if discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

- Mechanical irritation of eyes and respiratory tract from dust.
- Skin redness or irritation from dust.
- **Thermal burns** from molten polymer.
- Transient discomfort (cough, sore throat, headache) from process fumes.

4.3 Indication of any immediate medical attention and special treatment needed

- For skin contact with molten material, **specialised burn treatment** is required. Do not remove adhered polymer.
 - Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable: **Water spray**, foam, dry chemical powder, carbon dioxide.
- Unsuitable: High-pressure water jets that may disperse dust or pellets.

5.2 Special hazards arising from the substance or mixture

- Combustible solid.
- Fine dust may form **explosive dust-air mixtures**.
- Combustion or thermal decomposition may produce **CO, CO₂ and irritating organic fumes/smoke**.

5.3 Advice for firefighters

- Wear **self-contained breathing apparatus (SCBA)** and full protective clothing.
 - Cool containers and hot masses with water spray.
 - Avoid inhalation of fumes and smoke; fight fire from upwind, from a safe distance.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Risk of **slipping** on spilled pellets.
- Avoid dust formation and accumulation; avoid electrostatic discharge and ignition sources if dust is present.
- Use PPE as indicated in Section 8.

6.2 Environmental precautions

- Prevent pellets and dust from entering drains, surface waters or soil.
- Avoid uncontrolled release; pellets may be ingested by wildlife.

6.3 Methods and material for containment and cleaning up

- Collect mechanically (shovel, broom, industrial vacuum suitable for combustible dust).
- Avoid dry sweeping of fine dust; use vacuum or wet methods if possible.
- Place recovered material in suitable, labelled containers for reuse or disposal (see Section 13).

6.4 Reference to other sections

- See **Section 8** for PPE.
 - See **Section 13** for waste disposal.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Ensure good **general ventilation**; use local exhaust where dust or fumes may be generated.
- Avoid creating and accumulating dust; implement **dust housekeeping** programme.
- Implement **static control** (grounding/bonding) where dust clouds may occur.
- In purging operations:
 - Do not leave the material standing inside the screw/barrel at high temperature.
 - After expulsion, spread the purge mass in thin sheets and cool it (e.g. water bath) to accelerate heat dissipation.
 - Follow specific Easypurge purging instructions for the polymer transition and machine size.
- Hygiene measures: Do not eat, drink or smoke in work areas. Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Store in original, tightly closed packaging in a **dry, cool and well-ventilated** area.
- Protect from moisture, rain, direct sunlight and sudden temperature changes.
- Keep away from **open flames, heat and strong oxidising agents**.
- Recommended shelf life (under proper storage conditions): **24 months**.

7.3 Specific end use(s)

- Industrial purging compound for thermoplastic equipment as described in Section 1.2, including transitions involving **PA, EVOH, PET and polyolefins**.
 - Refer to the **Technical Data Sheet (TDS)** for recommended dosage (typically used at 50 % with the production resin, adjustable according to severity and geometry) and detailed purging procedures.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The mixture contains no components with specific EU or ACGIH OELs at disclosure levels, other than generic limits for nuisance dust / particulates not otherwise classified (PNOC). Typical reference values:

- Inhalable dust: **10 mg/m³** (8-h TWA)
- Respirable dust: **3 mg/m³** (8-h TWA)

Users must consult and comply with applicable **national/regional OELs**.

8.2 Exposure controls

8.2.1 Engineering controls

- Provide adequate **general ventilation** and, where necessary, **local exhaust** at dust and fume emission points (feed hoppers, extruder vents, machine openings, purging area).
- Capture and extract thermal fumes during high-temperature operations.
- Prevent dust accumulation on structural elements.

8.2.2 Individual protection measures

- **Eye/face protection:**
 - Safety glasses with side shields as a minimum.
 - Face shield when handling hot/molten material or during purging.
- **Skin protection:**
 - Protective work clothing with long sleeves.
 - Heat-resistant gloves and protective garments when handling hot/molten material.
- **Respiratory protection:**
 - Not normally required when handling pellets in well-ventilated areas.
 - When dust or fumes may exceed exposure limits, use a **NIOSH/EN-approved respirator** (e.g. FFP2/FFP3 or equivalent particulate filter) together with local exhaust.
- **General hygiene:**
 - Wash hands and exposed skin after handling and before eating, drinking or smoking.
 - Remove contaminated clothing and wash before reuse.

8.2.3 Environmental exposure controls

- Avoid release of pellets and dust to the environment.
- Implement appropriate containment and recovery measures and manage waste according to Section 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Solid pellets
- Colour: Grey to off-white
- Odour: Faint, characteristic of polyolefins
- Odour threshold: Not determined
- pH: Not applicable (solid)
- Melting/softening behaviour: No single melting point; modified polyolefin base that softens with temperature
- Typical processing range: **180–280 °C** (guideline; adjust to host polymer such as PA/EVOH/PET)
- Initial boiling point/boiling range: Not applicable (solid polymer)
- Flammability: Combustible solid
- Flash point: Not determined for the mixture (not expected to flash in supplied form)
- Auto-ignition temperature: Not determined
- Decomposition temperature: Thermal decomposition at elevated temperatures with fume generation
- Explosive properties: Not explosive as supplied; combustible dust hazard if finely divided
- Oxidising properties: Not oxidising
- Vapour pressure: Not applicable
- Vapour density: Not applicable
- Relative density / bulk density: Not determined precisely; typical bulk density of pellets in the range of polymer masterbatches
- Solubility in water: Insoluble
- Partition coefficient n-octanol/water: Not applicable (polymeric mixture)
- Viscosity: Not applicable (solid)
- Particle characteristics: Pellets approx. 2–5 mm; secondary dust may form during handling.

9.2 Other information

- No additional safety-relevant physical and chemical properties are known.
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SECTION 10: Stability and reactivity

10.1 Reactivity

No specific reactivity hazards expected under recommended storage and use conditions.

10.2 Chemical stability

Stable under normal handling and storage conditions and within the recommended processing range.

10.3 Possibility of hazardous reactions

No dangerous reactions known. Dust may present explosive potential in certain conditions.

10.4 Conditions to avoid

Prolonged overheating, flames, ignition sources, formation and accumulation of dust clouds.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition and combustion may produce **CO, CO₂ and irritating organic fumes.**

SECTION 11: Toxicological information

11.1 Information on hazard classes

- **Acute toxicity (oral, dermal, inhalation):** Low toxicity; not classified.
- **Skin corrosion/irritation:** Not classified; dust may cause slight mechanical irritation.
- **Serious eye damage/irritation:** Not classified; dust may cause transient irritation and redness.
- **Respiratory or skin sensitisation:** Not expected to be sensitising.
- **Germ cell mutagenicity, carcinogenicity, reproductive toxicity:** No components classified at relevant concentrations.
- **STOT – single/repeated exposure:** Not classified; high levels of dust/fumes may cause transient respiratory irritation.
- **Aspiration hazard:** Not applicable (solid form, high viscosity when molten).

Likely routes of exposure

Skin and eye contact, inhalation of dust or fumes.

Symptoms

Mechanical irritation of eyes/skin, cough or throat irritation from dust/fumes; pain and tissue damage in case of contact with molten material.

Delayed and chronic effects

No chronic health effects are expected when used as directed. Prolonged exposure to high concentrations of dust may aggravate existing respiratory disorders.

11.2 Information on other hazards

Endocrine disrupting properties

No ingredients at ≥ 0.1 % are known to have endocrine-disrupting properties for human health according to current information.

SECTION 12: Ecological information

12.1 Toxicity

The solid mixture is not expected to present significant acute toxicity to aquatic or terrestrial organisms.

12.2 Persistence and degradability

Polymeric components are persistent and degrade slowly in the environment.

12.3 Bioaccumulative potential

Low bioavailability; significant bioaccumulation is unlikely.

12.4 Mobility in soil

Insoluble; pellets have low intrinsic mobility but can be transported mechanically by wind or water.

12.5 Results of PBT and vPvB assessment

No components are identified as PBT or vPvB at ≥ 0.1 %.

12.6 Endocrine disrupting properties

No ingredients at ≥ 0.1 % are known to have endocrine-disrupting properties relevant for the environment.

12.7 Other adverse effects

Pellets may contribute to **microplastic pollution** if released to the environment; avoid uncontrolled dispersion.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product waste:
 - Manage as **non-hazardous plastic waste**, unless local regulations specify otherwise.
 - Prefer **recycling or recovery** where feasible.
 - Dispose of via authorised waste contractor in accordance with local/national regulations.
- Do not discharge into sewers or natural water bodies.

- Contaminated packaging:
 - Empty packaging completely. Reuse, recycle or dispose of as non-hazardous packaging waste according to local regulations.

Waste codes (EWC, RCRA, etc.) should be assigned at the **user's site** based on actual use, contamination and applicable legislation.

SECTION 14: Transport information

- UN number: **Not regulated**
 - UN proper shipping name: **Not regulated as dangerous goods**
 - Transport hazard class(es): Not applicable
 - Packing group: Not applicable
 - Environmental hazards: Not classified as marine pollutant or environmentally hazardous for transport
 - Special precautions for user: Prevent package damage and pellet leakage; secure loads to avoid spills during transport.
 - Transport in bulk according to IMO instruments: Not intended for bulk transport under IMO Codes.
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SECTION 15: Regulatory information

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

- **EU / EEA / UK:**
 - Complies with classification rules under CLP/REACH. Not subject to REACH Annex XIV authorisation or specific Annex XVII restriction at relevant levels.
- **USA (federal):**
 - OSHA Hazard Communication Standard: Non-hazardous mixture in solid pellet form; SDS supplied for industrial user information.
 - TSCA: Polymeric and inorganic components are typically listed or exempt; users should verify TSCA status for their jurisdiction if needed.
- **Canada:**
 - WHMIS 2015 / HPR: Not classified as hazardous in supplied solid form.
 - DSL/NDSL: Components expected to be listed or exempt; verify as needed for specific applications.
- **Other countries:**

- Product is a polymeric mixture expected to be compatible with GHS-based regulations when handled according to this SDS. Local inventories and labelling rules must be checked before placing on a given market.

15.2 Chemical safety assessment

- No chemical safety assessment has been carried out for this mixture.
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SECTION 16: Other information

Reason for issue:

- Conversion of CT301 SDS to **global multi-region GHS/REACH format**, aligned with **Commission Regulation (EU) 2020/878** and suitable as a base for US/CA and other GHS jurisdictions.

Abbreviations:

REACH, CLP, GHS, PBT, vPvB, ED, OEL, TWA, PNO, SDS, TDS, OSHA, WHMIS, TSCA, DSL, SCBA, etc.

Training advice:

Workers should receive training on:

- Safe handling of thermoplastic pellets and purging compounds.
- Purging procedures, high-temperature operations and burn risks.
- Dust control and housekeeping.
- Emergency measures for spills, fires and thermal burns.

Disclaimer:

The information in this document is based on data considered reliable at the time of issue. It does not constitute a guarantee of product properties and does not replace a process- and workplace-specific risk assessment. The user is responsible for complying with applicable regulations and implementing safe handling, storage, processing, transportation and disposal practices.