**SAFETY DATA SHEET**

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

**Easypurge CT401 CLEAR – Concentrated purge compound (transparent engineering base, high temperature)**
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 versions and country-specific legal references may be required for placing the product on individual markets.

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

**1.1 Product identifier**

- Product name: **Easypurge CT401 CLEAR**
- Product code: **CT401**
- 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.
    - Especially effective in lines processing **high-temperature transparent engineering polymers**, e.g. PC, PMMA, PA, ABS and blends.



- Uses advised against:
    - Use as a component of consumer products or final plastic articles.

- Use outside the recommended processing temperature range (**approx. 240–320 °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 additional 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 per national system.

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**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 (CLP) in solid pellet form.

**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).

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**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.*
    - *Spilled pellets may cause a slipping hazard.*

**US / Canada (OSHA HCS / WHMIS):**

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

**2.3 Other hazards**

- No ingredients present at ≥ 0.1 % are known to meet the criteria for **PBT/vPvB** or to be identified as **endocrine disruptors** according to current EU criteria.
- Not supplied as a **nanoform** as defined under REACH.
- Spilled pellets may cause **slips and falls**.
- Thermal processing may generate **fumes** that can cause irritation; appropriate ventilation is required.

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**SECTION 3: Composition/information on ingredients**

**3.1 Substances**
Not applicable – mixture.

**3.2 Mixtures**

Polymeric masterbatch composed of transparent engineering resins and functional additives for high-temperature purging of transparent engineering polymers. No abrasive mineral fillers are intentionally added.

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Typical composition (ranges expressed for formulation protection):

| Component group | Typical content (% w/w) | GHS / CLP classification | Notes |
|---|---|---|---|
| Transparent engineering resins (polymeric base) | < 90 % | Not classified | Optical/high-temperature purge base |
| Compatibility reagent (engineering co-polymer / modifier) | < 10 % | Not classified | Enhances wetting and deposit removal |
| Resin additives (lubricants and stabilisers) | < 5 % | Not classified | Processing aids |
| Other additives | < 3 % | Not classified | Proprietary, below classification thresholds |

The mixture contains **no known hazardous components ≥ 1 %** that require classification of the mixture in its supplied solid form under CLP, OSHA HCS or WHMIS.

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**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.

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- **Skin contact (cold material):** Wash with soap and water.
- **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 gauze and seek **immediate medical attention**.

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- **Eye contact:** Rinse cautiously with water for several minutes; remove contact lenses if easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel.

**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.
- Discomfort from inhalation of process fumes (cough, sore throat, headache).

**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; dust explosions may occur at high concentrations of fines in air.

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- Combustion and thermal decomposition may produce **carbon monoxide, carbon dioxide and irritating organic fumes/smoke**.

**5.3 Advice for firefighters**

- Wear **self-contained breathing apparatus (SCBA)** and full protective gear.
- Water/foam is preferred for its cooling capacity on hot masses. Avoid concentrated jets that could disperse dust.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

- Risk of **slipping** due to spilled pellets.
- Avoid generating dust and electrostatic discharges.
- Use PPE as indicated in Section 8.

**6.2 Environmental precautions**

- Prevent material from reaching drains, surface waters or soil.

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**6.3 Methods and material for containment and cleaning up**

- Collect mechanically (shovel, broom, industrial vacuum suitable for combustible dust).

- Avoid dispersing dust into the air; vacuum or gently sweep and place in labelled containers for reuse or disposal.

**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**

- Maintain good **general ventilation** and local exhaust where dust or fumes may be generated.

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- Avoid accumulation of dust deposits; implement regular housekeeping.
- Implement measures against static electricity (grounding/bonding, avoiding dust clouds).
- In purging operations:
    - Do not leave the material standing inside the barrel at high temperature.
    - After expulsion, spread purge masses into thin sheets and cool in water to accelerate heat dissipation.
- Typical use: use the concentrate at about **50 %** (1:1 with the production resin); adjust ratio according to severity of contamination and machine geometry.

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- Hygiene measures: Do not eat, drink or smoke in processing areas. Wash hands after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

- Store in a **dry place**, in original sealed packaging, away from sunlight, rain and sudden temperature changes.
- Keep away from **open flames, heat sources and strong oxidising agents**.

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- Recommended shelf life: **24 months** under proper storage conditions.

**7.3 Specific end use(s)**

- Industrial purging compound for high-temperature transparent engineering polymers as described in Section 1.2.
- Refer to the **Technical Data Sheet (TDS)** for detailed purging procedures and temperature settings per polymer family (PC, PMMA, PA, ABS, etc.).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

The mixture contains no specific components with individual OELs at disclosure levels, other than generic limits for nuisance dust / particulates not otherwise specified (PNOS).

Typical reference values (to be replaced/confirmed by local regulations):

- Inhalable dust: **10 mg/m$^3$** (8-h TWA)
- Respirable dust: **3 mg/m$^3$** (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, machine openings, purging zone).
- Capture thermal fumes generated at high temperatures.

#### 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

- **Eye/face protection:**
    - Safety goggles with side shields; use a face shield when handling hot/molten material.



- **Skin protection:**
    - Work clothing with long sleeves.
    - Heat-resistant gloves when handling molten material; safety shoes in process area.
- **Respiratory protection:**
    - Not normally required during handling of pellets in well-ventilated areas.
    - If dust or fumes may exceed occupational exposure limits, use a **NIOSH/EN-approved particulate respirator** (e.g. FFP2/FFP3 or equivalent) together with local exhaust.

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- **Hygiene measures:**
    - Wash hands after handling; eating, drinking and smoking are prohibited in work areas.

#### 8.2.3 Environmental exposure controls

- Prevent discharge of pellets or dust to the environment.

- Collect spills promptly and dispose of them according to Section 13.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Appearance: Solid pellets, white.

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- Odour: Faint.
- Odour threshold: Not determined.
- pH: Not applicable (solid).
- Melting/softening point: No single point; polymeric base softens with temperature.

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- Typical processing range (high temperature): **240–320 °C** (indicative; adjust to polymer being processed).

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- Boiling point/boiling range: Not applicable (polymeric solid).
- Flammability: Combustible solid.
- Flash point: Not determined for the mixture.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not precisely determined; decomposition with fume generation at elevated temperatures.
- 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.
- Solubility in water: Insoluble.
- Partition coefficient n-octanol/water: Not applicable (polymeric mixture).
- Viscosity: Not applicable (solid).
- Particle characteristics: Typical pellet size **2–5 mm**; dust may form during mechanical handling.

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**9.2 Other information**

- No additional safety-relevant properties are known.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**
No specific reactivity hazards under recommended conditions.

**10.2 Chemical stability**
Stable under normal handling and storage and within the recommended processing range.

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**10.3 Possibility of hazardous reactions**
No dangerous reactions known. Combustible dust may form under certain conditions.

**10.4 Conditions to avoid**
Prolonged overheating; open flames; ignition sources; formation and accumulation of dust clouds.

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**10.5 Incompatible materials**
Strong oxidising agents.

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**10.6 Hazardous decomposition products**
Thermal decomposition and combustion may produce **CO, $CO_2$ and irritating organic fumes/smoke**.

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**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 mild mechanical irritation.

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- **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 temporary respiratory irritation (cough, throat irritation).
- **Aspiration hazard:** Not applicable (solid pellets and high viscosity when molten).

**Likely routes of exposure**
Skin and eye contact; inhalation of dust or thermal fumes.

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**Symptoms related to physical, chemical and toxicological characteristics**
Mechanical irritation of eyes/skin; discomfort or coughing due to 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 dust concentrations may aggravate existing respiratory conditions.

**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.

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**SECTION 12: Ecological information**

**12.1 Toxicity**
The solid mixture is not expected to present significant acute toxicity to aquatic organisms.

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**12.2 Persistence and degradability**
Polymeric components are essentially insoluble and degrade slowly in the environment.

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**12.3 Bioaccumulative potential**
Low bioavailability; significant bioaccumulation is unlikely.

**12.4 Mobility in soil**
Low mobility; pellets may be transported mechanically by wind or water but are not soluble.

**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 can be ingested by wildlife if released to the environment; avoid uncontrolled releases and potential contribution to **microplastic pollution**.

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**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 energy recovery** where feasible.
    - Dispose of via authorised waste contractor in accordance with local/national regulations.

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- 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.) must be assigned at the **user's site** based on actual use and applicable legislation.

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**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.

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- Special precautions for user: Avoid pellet loss; keep containers closed and properly secured 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**

- **Global framework:** GHS (UN) and ISO 11014.
- **EU/EEA:** REACH (Annex II) and CLP; not subject to Annex XIV authorisation; no specific Annex XVII restriction at relevant levels.
- **United Kingdom:** UK REACH and GB CLP.
- **United States:** OSHA HCS (29 CFR 1910.1200) – SDS provided for industrial user information.
- **Canada:** WHMIS 2015 / HPR – not classified as hazardous in supplied solid form.
- **APAC & LATAM:** Product formulated to be consistent with GHS-based regulations (e.g. China GB/T 16483 and 17519; Japan JIS Z 7253; Korea K-OSHA; Australia Model WHS; Mexico NOM-018; Chile NCh 2245; etc.) as already referenced in previous CT401 documentation.

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Users must verify specific inventory/notification status and any additional national requirements in each country where the product is placed on the 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 CT401 CLEAR 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.

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**Prepared by:** Technical Department – Qootzeer Innovation Lab S.L.
**Preparation / revision date:** 08/11/2025

**Abbreviations:**
REACH, CLP, GHS, PBT, vPvB, ED, OEL, TWA, PNOS, 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, housekeeping and combustible dust hazards.
- 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.