

Product Information

TEGO® Sorb PY 88 TQ

PRODUCT DESCRIPTION

TEGO® Sorb PY 88 TQ is a zinc ricinoleate used as odor absorber with a key and locker principle. It is not working with a flavour principle.

Typical Properties

Property	Unit	Value
Appearance 20 °C		pale yellow pellets
Melting Point	°C	88
pH Value 1% in IPA/Water		5.5-7.5

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

TEGO® Sorb PY 88 TQ is used for the production of masterbatches and compounds.

BENEFITS & ADVANTAGES

- Excellent odor absorbing properties (it is no flavour such as vanilla) makes TEGO® Sorb PY 88 TQ especially suitable for the effective control of odours evolving from products like hydrogen sulfide, mercaptane, thioether, isovaleric acid, amines and ammonia
- Good heat stability in the compounding process. Compatibility with other chemicals has to be checked for each particular case and application
- Especially suitable for polyolefins (e. g. LDPE, PP), rubber compounds (e. g. vulcanized TPE-V or EPDM) and recycled material (e.g. PA, polyolefins and rubber)
- Reduces odor during dispersing of ultramarines (UB), yellow pigments and oxidized carbon blacks
- For special SBR rubber emulsions or acrylates with mal-odor an aqueous formulation of TEGO® Sorb PY 88 TQ is available

DOSAGE

Dosage depends on the application and specific formulation in use as well as on the required performance. The

recommended dosage is 0.5% to 2.0% of TEGO Sorb® PY 88 TQ. A dosage of 1% is often ideal.

TEGO® Sorb PY 88 TQ is used in color masterbatches typically with 1% in combination with pigments, e.g. 50% UB in PP with 1% TEGO® Sorb PY 88 TQ or 10% UB in PET with 1% TEGO® Sorb PY 88 TQ.

TEGO® Sorb PY 88 TQ is suitable to produce 10% masterbatches out of it in PE and PP. Exceeding that concentration is difficult and needs special screw and / or polymer selection. Usually 10% masterbatches will be used with 5-10% in the final application such as films.

HANDLING & PROCESSING

TEGO Sorb® PY 88 TQ can be easily dry blended before compounding or directly fed on the extrusion line. However, due to its melting point of 88 °C the feeder should not get hot.

Direct use of the 100% active TEGO Sorb® PY 88 TQ in film lines with single screws is not recommended since it results in inhomogeneous distribution, holes or pressure peaks. Film manufacturers can receive a PE or PP based masterbatch from the Evonik portfolio.

PACKAGING

25 kg bags

700 kg (28 x 25 kg) pallet

SHELF LIFE

TEGO Sorb® PY 88 TQ as delivered can be stored in closed bags for 12 months.

HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

REGISTRATION LISTING SUMMARY

Based on the submitted information of our raw material suppliers we can confirm, that TEGO® Sorb PY 88 TQ is compliant with EC Regulation 1907/2006 (REACH).

The relevant components of TEGO® Sorb PY 88 TQ are listed/registered or exempt in the following chemical inventories:

Registration Listings	
Registry	Status
Australia (AIIC)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

FOOD CONTACT COMPLIANCE

European Regulation 10/2011 and amendments

TEGO® Sorb PY 88 TQ can be used in accordance to the European Regulation 10/2011.

Elastomer Guideline of the German UBA

The components of TEGO® Sorb PY 88 TQ are directly listed for their respective use in the updated positive list

(Annex 1 Part 1) of the Elastomer Guideline of the German UBA (MTCtap of 250 µg/l for Zn applies).

Therefore, we consider TEGO® Sorb PY 88 TQ suitable for applications in contact with drinking water according to the Elastomer Guideline.

BfR Recommendations

TEGO Sorb® PY 88 TQ may be used according to BfR Recommendation XXI 'Commodities based on natural and synthetic rubber', Annex, Table 1, as processing aid for applications according to BfR XXI/1 and XXI/2. The sum migration guide value SMR(T) of 25mg/kg, calculated as Zn, applies.

FDA

TEGO® Sorb PY 88 TQ can be used in compliance with FDA 21 CFR 177.1520 (olefin polymers) with a maximum dosage of 2%.

TEGO® Sorb PY 88 TQ may be used in compliance with 21CFR 175.105.

Furthermore TEGO Sorb® PY 88 TQ is listed in 21CFR175.300 as drier.

TEGO® Sorb PY 88 TQ may be used in compliance with 21 CFR 177.2600 up to a maximum level of 5% in the finished food contact article.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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