

1. CHEMICAL NAME

Reaction products of phosphoryl trichloride and 2-methyloxirane

2. IDENTIFICATION NUMBERS

CAS: 1244733-77-4

EC: 807-935-0

3. TECHNICAL REQUIREMENTS

Appearance at 20-25°C	homogenous, clear liquid
Hazen colour	max. 50 (ASTM D1209-05 (2019), visual method)
Acid value, mgKOH/g	max. 0.10 (MB-0051)
Viscosity at 25°C, mPa·s	61-89 (PN-EN ISO 12058-1:2018-10)
Water, %(m/m)	max. 0.1 (PN-ISO 760:2001, direct method)

4. INFORMATIVE DATA*

2-methyl-2-pentanal, mg/kg	max. 10 (GC)
Molecular weight, g/mol	327,5
Solubility in water	poor
Other solvents	methanol, acetone
Flash-point, °C	min. 215
Solidification point, °C	below -20
Density at 25°C, g/mL	1.28-1.30
Refractive index n_D^{25}	1.462-1.465
Odour	mild, sweetish

*These informative data are not technical requirements and cannot form the basis for any claims.

5. USE

Used in the plastics industry as a substance reducing combustibility especially in polyurethanes. It is also recommended for epoxy resins, unsaturated polyester resins as well as for phenolics.

6. PACKAGING

Drums, IBC containers and bulk deliveries (road tankers, isocontainers) and other packaging as agreed with the customer.

7. STORAGE

Store in air-tight closed containers, in covered and well ventilated rooms, in the temperature of -20°C to 40°C. Do not allow to direct heating of the product by sunlight, store away from sources of heat and fire, protect from moisture.

8. SHELF LIFE

The shelf life is 12 months from the date of manufacture. After this period, the product may be used after verifying compliance with technical requirements.

9. TRANSPORTATION

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

10. CLASSIFICATION AND LABELLING

This technical specification is applicable only if accompanied by the Safety Data Sheet in force. Pursuant to statutory requirements, only the Safety Data Sheet includes updated safety information.

OTHERS

The information contained herein is provided in good faith, based on our state of the art knowledge and experience. We reserve the right to amend this Technical Specification as a result of technological progress and product development by the manufacturer. This product is intended for the purposes specified herein, for industrial and professional use. To use the product for purposes other than indicated herein, please contact PCC Rokita for consultation sending an e-mail to: fosfory@pcc.eu. We cannot assume any liability for the use and application of our products, technical assistance and information provided (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations. Therefore, it is imperative that you test our products, technical assistance and information provided to determine to your own satisfaction whether they are suitable for your needs, production, your intended uses and applications. Such analysis adopted to the conditions of the use and application should include at least application tests, technical feasibility of the suggested solutions, taking into account safety requirements, health and environmental issues. Unless otherwise specified in writing, our products are offered under our applicable Standard Terms and Conditions of Sale available on our website. Any information, including technical assistance, is provided without warrant and can change at any time without notice. The parties explicitly agree that the Customer accepts and explicitly releases us from any liability in tort, contract or otherwise, for any loss or damage arising from the use of our products, information or technical assistance. Any declarations and recommendations other than stated herein are not valid or binding. Nothing in this document is intended to be a recommendation to use any product in violation of patent claims concerning material of intended use.