# A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane., Gases (petroleum), reformer effluent low-pressure flash drum off, Refinery gas@A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane., Gases (petroleum), reformer effluent low-pressure flash drum off, Refinery gas@Gases (petroleum), reformer effluent low-pressure flash drum off

## IDENTIFICATION NUMBERS

- **CAS:** 68513-19-9
- **EC/EINECS:** 271-005-5

## MORE INFORMATION

- **Synonyms:** GAS DE REFINERIA [COMBINACION COMPLEJA PRODUCIDA POR EXPANSION SUBITA A BAJA PRESION DEL EFLUENTE DEL REACTOR DE REFORMADO. COMPUESTA PRINCIPALMENTE DE HIDROGENO CON PEQUEÑAS CANTIDADES DE METANO, ETANO Y PROPANO.], GASES (PETROLEO), EFLUENTE DEL REFORMADOR CON TAMBOR DE EXPANSION SUBITA A BAJA PRESION

## USES

fuel

## CLASSIFICATION AND LABELLING (Regulation 1272/2008)

### Symbols



**GHS02**

Flammable gases



**GHS04**

Gases under pressure



**GHS08**

Respiratory sensitisation

**Signal word:** **Danger**

### H Phrases

**H???**

Gas a pres.,

**H220** : Extremely flammable gas

Flam. Gas (Cat. 1) : Flammable gas

**H350** : May cause cancer

Carc. (Cat. 1A) : Carcinogenicity

**H340** : May cause genetic defects

Muta. (Cat. 1B) : Germ cell mutagenicity

### Notes

- R.1272-Note K
- R.1272-Note U

## Specific health risks

### Carcinogens and mutagens (Regulation 1272/2008)

Substances classified as carcinogenic or mutagenic under Regulation 1272/2008

## Specific environmental risks

### Atmospheric emissions

Substances subject to atmospheric emission limitations under the Industrial Emissions Directive (2010/75/EU) and its Spanish transposition. Includes pollutants regulated in industrial installation emission permits and best available technique reference documents (BAT/BREF).

## Restriction/prohibition regulations

### Restricted substances under REACH

Substances listed in Annex XVII of the REACH Regulation (EC) No 1907/2006, subject to restrictions on their manufacture, placing on the market or use. Restrictions may be total or partial, limiting specific applications, maximum concentrations or user groups.

**NOTES**

Limitations: Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: ‘Restricted to professional users’. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/ EC; (b) cosmetic products as defined by Directive 76/ 768/EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists’ paints covered by Directive 1999/45/ EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. Source: Regulation 1907/2006 (REACH). Annex XVII

### Major accident hazards (Seveso)

Hazardous substances listed in Annex I of the Seveso III Directive (Directive 2012/18/EU), transposed in Spain by Royal Decree 840/2015. Their presence in industrial establishments in quantities equal to or above established thresholds triggers obligations to implement major accident risk control measures.