

SELF-DECLARED ENVIRONMENTAL CLAIM

(TYPE II ENVIRONMENTAL LABEL)

KGHM Polska Miedź S.A. HMG sulphuric acid



This document contains an environmental footprint declaration based on the results of a life cycle assessment (LCA) of sulphuric acid produced at KGHM Polska Miedź S.A., drawn up in accordance with ISO 14040 and ISO 14044 and the principles set out in ISO 14025.

General information

Product name	HMG sulphuric acid
Declared unit	1 tonne of HMG sulphuric acid
Manufacturer	KGHM Polska Miedź S.A.
Production plant	KGHM Polska Miedź S.A., Głogów Copper Smelter Branch
Life cycle assessment (LCA)	SimaPro 10.3.0.1 Developer, Ecoinvent v. 3.12
Contractor carrying out the analysis	Institute of Mineral Resources and Energy Management, Polish Academy of Sciences, Kraków
Publication date	30 June 2026
Period covered by the analysis	2024
Verifier	Silk Road Certification Sp. z o.o.
Type of review	Critical review in accordance with ISO 14044

Methodology and scope

Standards/guidelines applied : The assessment was carried out in accordance with ISO 14040 (ISO 14040:2021 Environmental management — Life cycle assessment — Principles and framework) and ISO 14044 (ISO 14044:2021 Environmental management — Life cycle assessment — Requirements and guidelines)

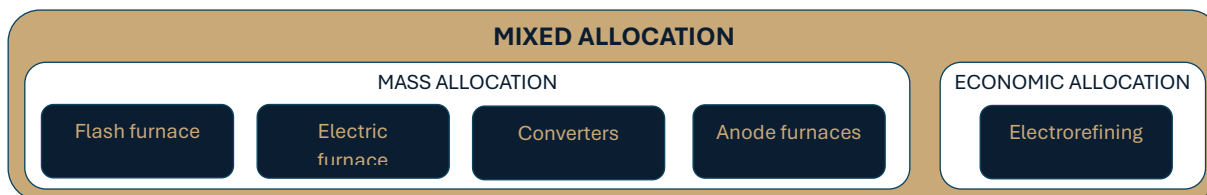
LCIA method: EF 3.1 Method (adapted) V1.05 / EF 3.1 normalisation and weighting set

Functional unit: 1 tonne of HMG sulphuric acid

System boundaries: A 'from source to plant gate' analysis of sulphuric acid production, covering extraction, enrichment, transport, smelting, refining and associated processes.

Does not include packaging, subsequent use or end-of-life.

Allocation procedures:



Product

Product name	HMG sulphuric acid
Product concentration	97–98.7% (summer acid) 94–96% (winter acid)
Standard	Quality as per the manufacturers' quality declaration or as agreed with the customer
Physical properties	A transparent or opalescent liquid, colourless to slightly yellow, odourless, highly corrosive and very hygroscopic (causes carbonisation of organic substances containing oxygen and hydrogen).
Purity	Impurities as defined in the quality declarations
Feedstock	Metallurgical gases
Packaging	Liquid stored in tanks specifically designated for this purpose on the premises of copper smelting plants (and in external tanks located outside the copper smelting plant areas – TKS)
Modes of transport	Rail (rail tankers), road (road tankers), sea (tankers)

POTENTIAL ENVIRONMENTAL IMPACT

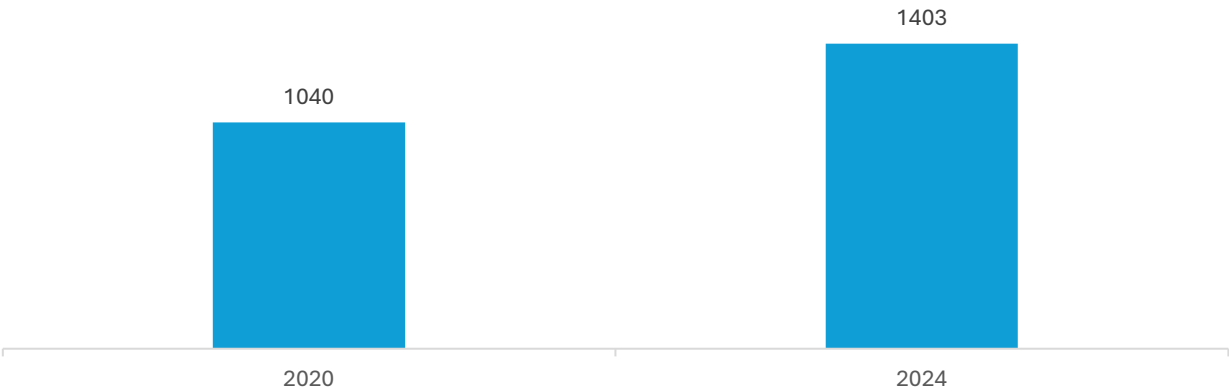
1 METRIC TONNE OF HMG SULPHURIC ACID

CHARACTERISED RESULTS OF IMPACT CATEGORY INDICATORS

IMPACT CATEGORY (EN)	QUANTITY	UNIT
CLIMATE CHANGE	1494	kg CO ₂ eq
ACIDIFICATION (FATE NOT INCLUDED)	6,544	mol H ⁺ eq
EUTROPHICATION, FRESHWATER	0.1496	kg P eq
OZONE DEPLETION	0.00003691	kg CFC-11 eq
PHOTOCHEMICAL OXIDATION	5.4327	kg NMVOC
RESOURCE USE, MINERALS AND METALS	0.1946	kg Sb eq
RESOURCE USE, FOSSIL	20,460	MJ
WATER USE	-1025	m ³ deprived

Carbon footprint – improvement

Carbon footprint
in kg CO₂e/t H₂SO₄



Additional environmental information

KGHM Polska Miedź S.A., HM Głogów Branch, holds Integrated Management System certificates confirming compliance with the requirements of the following standards: ISO 9001, ISO 14001, ISO 45001, ISO 50001 and ISO 22301 in relation to the products manufactured and processes carried out. The Głogów Copper Smelter Branch also holds Copper Mark certification. All our certificates are available at: www.kghm.com

Verification

Type of verification	Critical review in accordance with ISO 14040 (2021) and ISO 14044 (2021)
Verifier	Elżbieta Jezieniecka-Baryluk Silk Road Certification Sp. z o.o. 17 Lubieniecka Street 44-102 Gliwice
Date of verification	30 June 2026

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