SAFETY DATA SHEET

according to Regulation (EC) No 1272/2008 (CLP)

Menfenoxam 480 g/L EC

Shanghai Bosman Industrial Co., Limited

Product name	**Menfenoxam 480 g/L EC**	SDS number	**BM-SDS-9741**
Version	**1.0**	Issue date	**27 November 2026**
Print date	**27 November 2026**	Language	**EN**
Format	**GHS / CLP - 16 sections**		

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	Menfenoxam 480 g/L EC
Product type	Systemic phenylamide (acylalanine) fungicide, FRAC Group 4; emulsifiable concentrate (EC), 480 g/L active ingredient [COA_LOCAL, PUBCHEM]
Active substance	Metalaxyl-M (ISO; also known as mefenoxam), CAS 70630-17-0, EC 615-135-6 [PUBCHEM, ECHA_CL]
IUPAC name	methyl N-(methoxyacetyl)-N-(2,6-xylyl)-D-alaninate (methyl (R)-2-{[(2,6-dimethylphenyl)methoxyacetyl]amino}propionate) [PUBCHEM]
Synonyms	CIPAC 580; synonyms mefenoxam, R-metalaxyl, CGA 329351/CGA 76539; (R)-enantiomer of metalaxyl [PUBCHEM, JMPR_REF]

1.2 Relevant identified uses and uses advised against

Identified use	Professional plant-protection product (systemic phenylamide fungicide, FRAC Group 4) for foliar and soil application against Oomycete diseases (late blight, downy mildews, Phytophthora root rots, Pythium damping-off). For professional users only. [PUBCHEM, JMPR_REF]
Uses advised against	Any use other than the identified use. Not for domestic or residential use. Do not use on crops or sites not stated on the label. [GHS_STD]

1.3 Details of the supplier of the safety data sheet

Supplier	Shanghai Bosman Industrial Co., Limited
Address	No. 1611, North Sichuan Road, Hongkou District, Shanghai 200080, P.R. China
Telephone	+86 21 6306 5878
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Website	www.bosmangroup.com

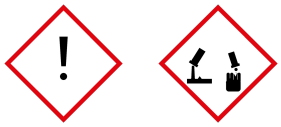
1.4 Emergency telephone number

24-hour emergency line	+86 21 6356 6528 (Shanghai Bosman Industrial Co., Limited, 24 h)
Poison centre	Contact your local poisons information centre or emergency services (e.g. 120 in mainland China) in case of poisoning.

2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification per Regulation (EC) No 1272/2008 (CLP), Annex VI Table 3 harmonised entry (index 612-163-00-0) of the active substance, applied to the mixture under the CLP dilution rules:



SIGNAL WORD
DANGER

H-code	Hazard statement	Class / category
H302	Harmful if swallowed	Acute Tox. 4 (oral)
H318	Causes serious eye damage	Eye Dam. 1

No environmental-hazard classification is included in the harmonised entry; aquatic toxicity data are listed in Section 12. Earlier supplier self-classifications (Eye Irrit. 2A / H319) are superseded by the harmonised entry and are not used. [ECHA_CL]

2.2 Precautionary statements

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear eye protection and face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P330 Rinse mouth.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 Dispose of contents and container to a licensed hazardous-waste contractor.

2.3 Other hazards

The harmonised Annex VI entry (index 612-163-00-0) applies to metalaxyl-M as a substance; this SDS applies it to the EC mixture under the CLP dilution rules. The pure active substance is a viscous liquid at room temperature (no solid technical form); supplier self-classifications in public databases vary and are not adopted where they conflict with the harmonised entry. [ECHA_CL]

The pure active substance is a viscous liquid at room temperature (melting point -38.7 deg C); no solid technical form exists. Not classified as PBT / vPvB. [PHYS_PUB]

3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Concentration	Classification
Metalaxyl-M (ISO; mefenoxam)	70630-17-0	615-135-6	>=480 g/L (approx. 40-45% w/w)	Acute Tox. 4 H302; Eye Dam. 1 H318 (harmonised entry)
Solvents and EC formulation additives	-	-	to 100%	Not classified / OPEN

The classification reflects the harmonised entry of the active substance applied under the CLP mixture rules (formulation oral ATE approx. 1.5-1.7e3 mg/kg). [COA_LOCAL, ECHA_CL]

4 FIRST-AID MEASURES

General advice	Move the person out of the contaminated area. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person. [GHS_STD]
Inhalation	Move the person into fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician. [GHS_STD]
Skin contact	Take off all contaminated clothing immediately. Wash the skin thoroughly with soap and plenty of water. If irritation develops, seek medical advice. [GHS_STD]
Eye contact	Rinse cautiously with water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Get immediate medical attention - serious eye damage is possible (H318). [GHS_STD, ECHA_CL]

Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention. [GHS_STD]
Medical treatment	No specific antidote. Treat symptomatically and supportively. [GHS_STD]

5 FIRE-FIGHTING MEASURES

Suitable media	Water spray, dry powder, foam or carbon dioxide. [GHS_STD]
Unsuitable media	Do not use a solid water stream - it may scatter and spread the fire. [GHS_STD]
Special hazards	Thermal decomposition may release toxic and irritant gases (oxides of carbon and nitrogen). Closed containers exposed to heat may rupture. The flash point of the formulation is not stated (OPEN); treat as a combustible liquid and keep away from ignition sources. [PHYS_PUB, OPEN, GHS_STD]
Protective equipment	Wear self-contained breathing apparatus and full protective clothing. Contain fire water run-off; do not allow it to enter drains or watercourses. [GHS_STD]

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate non-essential personnel. Wear the PPE specified in Section 8. Avoid breathing vapour or spray. Avoid contact with skin and eyes. Ensure adequate ventilation. [GHS_STD]
Environmental precautions	Do not allow the product to enter drains, sewers, watercourses or groundwater. Collect spillage to minimise release. [GHS_STD]
Cleaning up	Contain and absorb the liquid with an inert absorbent (sand, earth, vermiculite) and place in a labelled, closed container for disposal. Wash the contaminated area with water and detergent. [GHS_STD]

7 HANDLING AND STORAGE

Handling	Keep containers tightly closed and labelled. Handle in well-ventilated areas, away from food, feed and drinking water. Avoid contact with skin and eyes; do not breathe vapour or spray. Wash hands and face after handling. [GHS_STD]
Storage	Store in the original, tightly closed container in a cool, dry, well-ventilated place, protected from direct sunlight and frost. Keep locked up and out of reach of children; store separately from food, feed, seed and drinking water. [GHS_STD]
Stability note	The active substance is hydrolytically stable at pH <= 7; keep the container closed and away from strong alkalis and oxidising agents. [PHYS_PUB]
Specific end use	Professional plant-protection product; observe the instructions for use, the resistance-management guidance (FRAC Group 4) and label restrictions. Use with a multi-site protectant fungicide; limit the number of applications per season. [GHS_STD, JMPR_REF]

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	No binding occupational exposure limit established for the mixture; apply general hygiene standards of good occupational practice. [GHS_STD]
Engineering controls	Use only in well-ventilated areas, preferably under local exhaust ventilation. Avoid generating vapour, mist or spray. [GHS_STD]
Eye protection	Tight-fitting protective goggles or face shield (EN 166) - serious eye damage hazard (H318). [GHS_STD, ECHA_CL]
Hand protection	Chemical-resistant gloves (e.g. nitrile rubber, EN 374); replace when contaminated. [GHS_STD]
Skin protection	Long-sleeved protective clothing and closed footwear; use a chemical-resistant apron when handling concentrated product. [GHS_STD]
Respiratory protection	Where exposure limits may be exceeded or mist is generated, wear a respirator with combined particulate/vapour filter (EN 143/14387, A-P2 or higher). [GHS_STD]

Do not eat, drink or smoke in work areas. Remove and wash contaminated clothing before reuse. [GHS_STD]

9 PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Yellow homogeneous liquid (emulsifiable concentrate) [COA_LOCAL]
Active content	>= 480 g/L; batch 20260301 measured 481.0 g/L [COA_LOCAL]
pH	4.0-8.0 (QC specification); batch 20260301 measured 5.1. Note: the original QC record prints the specification ambiguously ('4.0-87.0'); the 4.0-8.0 range is stated pending confirmation by the Q.C. department (the 2024 QC record used 3.0-7.0) [COA_LOCAL]
Water content	<= 0.5 %; batch 20260301 measured 0.1 % [COA_LOCAL]
Cold / hot storage stability	Cold and hot storage stability: qualified (batch 20260301) [COA_LOCAL]
Dilution stability (20-fold)	Dilution stability (20-fold): qualified (batch 20260301) [COA_LOCAL]
Emulsion stability	Emulsion stability / re-emulsification not stated in supplied sources (OPEN) [OPEN]
Melting point (pure AI)	-38.7 deg C (glass transition temperature; the pure active substance is a viscous liquid at room temperature); decomposition approx. 270 deg C - pure active substance data [PHYS_PUB]
Vapour pressure (pure AI)	3.3 mPa at 25 deg C - pure active substance data [PHYS_PUB]
Water solubility (pure AI)	26 g/L at 25 deg C (well soluble) - pure active substance data [PHYS_PUB]
log Pow (pure AI)	1.71 +/- 0.04 at 25 deg C - active substance data (no dissociation, no pKa) [PHYS_PUB]
Density (pure AI)	Relative density 1.125 at 20 deg C (pure active substance); density of the EC formulation not stated in supplied sources (OPEN) [PHYS_PUB, OPEN]
Flash point (pure AI / formulation)	Pure active substance 179 deg C (EEC A10); flash point of the EC formulation not stated in supplied sources (OPEN) - solvent system dependent, confirm before transport classification [PHYS_PUB, OPEN]
Explosive / oxidising	Not classified as explosive or oxidising [GHS_STD]

10 STABILITY AND REACTIVITY

Reactivity / stability Stable under recommended storage and handling conditions. The active substance is hydrolytically stable at pH <= 7 (DT50 >200 d) and degrades at pH 9 (DT50 116 d at 25 deg C); not degraded by aqueous photolysis. [PHYS_PUB]

Conditions to avoid Avoid heat, sparks, open flames and prolonged exposure to direct sunlight. Protect from temperatures exceeding 40 deg C. [GHS_STD]

Materials to avoid Strong oxidising agents, strong alkalis. Keep away from food, feed and drinking water. [GHS_STD]

Hazardous decomposition Combustion or thermal decomposition may form carbon oxides and nitrogen oxides. [GHS_STD]

11 TOXICOLOGICAL INFORMATION

Endpoint	Result	Source
Acute oral	Rat oral LD50 667-669 mg/kg (metalaxyl-M/metalaxyl active substance, WHO class II); formulation ATE estimated approx. 1.5-1.7e3 mg/kg (CLP dilution rules, Acute Tox. 4)	TOX_PUB / ECHA_CL
Acute dermal	Rat dermal LD50 >2000 mg/kg; rabbit >6000 mg/kg - active substance data	TOX_PUB
Acute inhalation	Rat inhalation LC50 (4 h) >2290 mg/m3 - active substance data	TOX_PUB
Skin irritation	Not a skin irritant (rabbit)	TOX_PUB
Eye damage	Serious eye damage (rabbit) - Eye Dam. 1 per the harmonised classification	TOX_PUB / ECHA_CL
Sensitisation	Not a skin sensitiser (guinea pig)	TOX_PUB
Subchronic / NOEL	NOEL rat 2.5, mouse 35.7, dog 8.0 mg/kg bw/day; EPA endpoint reviews: rat prenatal developmental toxicity NOAEL 50 mg/kg/day (LOAEL 250, post-dosing convulsions); dog 6-month NOAEL 7.41 mg/kg/day (LOAEL 39, increased liver weight and alkaline phosphatase) - metalaxyl study package applied to metalaxyl-M	TOX_PUB / EPA_HH

Endpoint	Result	Source
Mutagenicity	Not mutagenic (negative in standard test batteries)	TOX_PUB
Carcinogenicity	US EPA classification 'not likely to be carcinogenic to humans' (adequate rat and mouse carcinogenicity studies; IARC not listed); not oncogenic in long-term studies	EPA_HH
Reproductive toxicity	No teratogenic or reproductive toxicity identified in EPA reviews (developmental effects were maternal systemic toxicity at 250 mg/kg/day); no Repr. classification in the harmonised entry	EPA_HH / ECHA_CL
STOT	No specific target-organ toxicity (STOT) classification in the harmonised entry; repeated-dose liver effects (hepatic hypertrophy, alkaline phosphatase) seen in the dog at 39 mg/kg/day	ECHA_CL / EPA_HH
Aspiration	Not classified (no aspiration-hazard data; high-viscosity liquid, low volatility)	OPEN
WHO class	WHO acute toxicity class II (moderately hazardous) for the active substance; formulation category not established (OPEN)	TOX_PUB / OPEN
ADI / RfD / PAD	Institution-specific reference doses: JMPR 2002 group ADI 0-0.08 mg/kg bw (metalaxyl + metalaxyl-M); BCPC/PPDB manual ADI 0.025 mg/kg bw; US EPA acute PAD 0.5 mg/kg/day (acute RfD 0.5); earlier EPA chronic RfD/cPAD 0.074 mg/kg/day (dog NOAEL 7.41) while current Federal Register reviews identify no chronic endpoint - values cited side by side, no single figure adopted	JMPR_REF / EPA_HH

12 ECOLOGICAL INFORMATION

Endpoint	Result	Source
Fish (96 h LC50)	Rainbow trout 96 h LC50 >100 mg/L; carp >100 mg/L (official assessment-package data); GESTIS cites a single EPA OPP 2000 database record of trout LC50 0.31 mg/L (1 study record only) - divergent datum cited for transparency - active substance data	ECO_PUB
Daphnia (48 h EC50)	Daphnia magna 48 h EC50 >100 mg/L; chronic 21 d NOEC 25 mg/L - active substance data	ECO_PUB
Algae	Raphidocelis subcapitata 96 h ErC50 271 mg/L (NOEC 19.7 mg/L growth rate) - active substance data; algae acute values are high and do not trigger an aquatic classification under the harmonised entry	ECO_PUB
Aquatic plant	Not stated in supplied sources (OPEN)	OPEN
Bees	Bee contact LD50 >25 ug/bee; oral LD20 >127 ug/bee (low toxicity) - active substance data	ECO_PUB
Earthworms	Earthworm (Eisenia foetida) 14 d LC50 158.67 mg/kg dry artificial soil, 110.86 mg/kg natural soil (low toxicity)	ECO_PUB
Birds	Japanese quail/bobwhite acute oral LD50 981-1419 mg/kg bw (practically non-toxic range) - active substance data	ECO_PUB
Beneficial arthropods	Not stated in supplied sources (OPEN)	OPEN
Persistence / degradation	Hydrolytically stable at pH <= 7 (DT50 >200 d even at 50 deg C); pH 9 DT50 116 d at 25 deg C; not degraded by aqueous photolysis (does not absorb >290 nm); soil metabolite NOA409045 was removed from the UK relevant-groundwater-metabolite list (October 2024); soil DT50 specific value OPEN	PHYS_PUB / REG_STATUS
Bioaccumulation	log Pow 1.71 (moderate); BCF not stated in supplied sources (OPEN) - low bioaccumulation expected	PHYS_PUB / OPEN
Mobility in soil	Water solubility 26 g/L and log Pow 1.71 indicate mobility in soil; Henry constant 3.5e-5 Pa m3/mol (negligible volatility); Koc specific value OPEN	PHYS_PUB
PBT / vPvB	Not classified as PBT / vPvB (no harmonised or REACH PBT determination retrieved; based on low bioaccumulation potential and moderate persistence)	PHYS_PUB / OPEN

No environmental-hazard classification in the CLP harmonised entry; acute aquatic toxicity values for the active substance are high (>100 mg/L). A single EPA OPP database record (trout LC50 0.31 mg/L, one study record) is cited for transparency as a divergent datum. Avoid release to the environment; collect spillage. [ECHA_CL, ECO_PUB]

13 DISPOSAL CONSIDERATIONS

Waste treatment	Dispose of the product and container as hazardous waste in accordance with local, national and international regulations. [GHS_STD]
Containers	Triple-rinse emptied containers and add rinsings to the spray tank; puncture or crush and offer for recycling where facilities exist. [GHS_STD]
Precautions	Do not contaminate ponds, watercourses or ditches with the product or empty container. Do not dispose of waste into sewer. [GHS_STD]

14 TRANSPORT INFORMATION

Item	Value
UN number	UN2902 [UN_TDG]
UN proper shipping name	PESTICIDES, LIQUID, TOXIC, N.O.S. (contains metalaxyl-M) [UN_TDG]
Class	6.1 [UN_TDG]
Packing group	III (estimated formulation oral ATE approx. 1.5-1.7e3 mg/kg, in the 300-2000 mg/kg band) [UN_TDG]
Marine pollutant	No (no environmental-hazard classification in the harmonised entry) [UN_TDG, ECHA_CL]

Transport under UN2902, Class 6.1, PG III (PESTICIDES, LIQUID, TOXIC, N.O.S.), regulated under ADR/RID, IMDG and IATA. The classification is based on the estimated formulation oral ATE (approx. 1.5-1.7e3 mg/kg, 300-2000 mg/kg band). The formulation flash point has not been measured (OPEN); if the closed-cup flash point is below 23 deg C the entry reverts to UN2903 (toxic, flammable). Confirm the final transport entry against the full-formulation test data and the carrier's requirements before shipment. Not a marine pollutant. Do not transport together with foodstuffs, feed or drinking water. [UN_TDG, OPEN, GHS_STD]

15 REGULATORY INFORMATION

CLP classification	Harmonised entry in CLP Annex VI Table 3 (index 612-163-00-0): Acute Tox. 4 H302; Eye Dam. 1 H318, Danger, GHS07 + GHS05. [ECHA_CL]
EU plant-protection status	Not approved as a plant-protection active substance in the EU under Regulation (EC) No 1107/2009 (EFSA exposure data grouped with metalaxyl). Registered in the US (EPA PC 113502, tolerances 40 CFR 180.546), UK (HSE, amended October 2024), Canada (PMRA), China (GB 2763 MRLs) and India (CIB&RC). Confirm destination-market registration status before supply [REG_STATUS]
WHO classification	WHO acute toxicity class II for the active substance. [TOX_PUB]
Seveso III	Not stated in a harmonised entry (OPEN); classify against Annex I of Directive 2012/18/EU per national implementation [OPEN]
Endocrine disruptors	No EU endocrine-disruption determination retrieved for metalaxyl-M (OPEN); EFSA assessments are grouped with metalaxyl [REG_STATUS, OPEN]

16 OTHER INFORMATION

16.1 Source key

Key	Source
COA_LOCAL	Local QC certificate for the 480 g/L EC formulation (PRODUCTS/Menfenoxam 480gl ec; batch 20260301, test and report date 12 March 2026, pack 20 L): appearance yellow homogeneous liquid, active concentration >=480 g/L (measured 481.0 g/L), pH 4.0-8.0 (measured 5.1), water <=0.5 % (measured 0.1 %), cold/hot storage stability qualified, dilution stability (20-fold) qualified. Analyst names redacted
PUBCHEM	PubChem/NIH public compound record (mefenoxam / metalaxyl-M, CID 11150163) - identifiers, molecular formula C15H21NO4, mass 279.33, IUPAC methyl N-(methoxyacetyl)-N-(2,6-xylyl)-D-alaninate; FAO/JMPR monograph linkage
ECHA_CL	ECHA / CLP Regulation (EC) No 1272/2008 Annex VI Table 3 harmonised entry, index 612-163-00-0 (EC 615-135-6) - Acute Tox. 4 (oral, H302); Eye Dam. 1 (H318); signal word Danger; pictograms GHS07 + GHS05; P264 P270 P280 P301+P312 P305+P351+P338 P501 (per GESTIS, checked 2025); no environmental-hazard classification in the harmonised entry

Key	Source
UN_TDG	UN Model Regulations transport classification applied to the liquid EC formulation - UN2902 PESTICIDES, LIQUID, TOXIC, N.O.S. (contains metalaxyl-M), Class 6.1, PG III, marine pollutant No; formulation ATE estimated from the harmonised oral classification and CLP dilution rules; formulation flash point not stated (OPEN - if <23 deg C closed cup the entry would revert to UN2903)
PHYS_PUB	FAO/JMPR 2004 metalaxyl-M monograph and GESTIS/DGUV physical data (pure active substance) - pale yellow clear viscous liquid; melting point -38.7 deg C (glass transition); decomposes approx. 270 deg C; relative density 1.125 at 20 deg C; vapour pressure 3.3 mPa at 25 deg C; water solubility 26 g/L at 25 deg C; log Pow 1.71 +/- 0.04 at 25 deg C; Henry 3.5e-5 Pa m3/mol; flash point 179 deg C (EEC A10); hexane solubility 59 g/L; miscible with toluene, dichloromethane, ethanol, ethyl acetate, acetone, n-octanol
TOX_PUB	US EPA toxicology reviews and public compilations for metalaxyl-M/metalaxyl - rat oral LD50 667-669 mg/kg (WHO class II); rat dermal LD50 >2000 mg/kg, rabbit >6000 mg/kg; rat inhalation LC50 (4 h) >2290 mg/m3; serious eye damage (rabbit), not a skin irritant, not a skin sensitiser (guinea pig); NOEL rat 2.5, mouse 35.7, dog 8.0 mg/kg bw/day; not oncogenic, not mutagenic, not teratogenic
EPA_HH	US EPA human-health risk assessment endpoint tables for mefenoxam (Federal Register 2018/2023/2024; OPP HED D325137) - acute dietary NOAEL 50 mg/kg/day (rat prenatal developmental toxicity, LOAEL 250, post-dosing convulsions), aPAD 0.5 mg/kg/day; no chronic dietary endpoint identified in current reviews (earlier HED file D325137 listed chronic RfD/cPAD 0.074 mg/kg/day, dog 6-month NOAEL 7.41, LOAEL 39 based on liver weight and alkaline phosphatase); cancer classification 'not likely to be carcinogenic to humans'; FQPA SF 1x
ECO_PUB	Official assessment-package ecotoxicity data for the metalaxyl-M active substance (consistent with the Bosman metalaxyl-M 350 g/L ES SDS component section) - rainbow trout 96 h LC50 >100 mg/L, carp >100 mg/L, Daphnia magna 48 h EC50 >100 mg/L, Raphidocelis subcapitata 96 h ErC50 271 mg/L (NOEC 19.7), trout 28 d NOEC 50 mg/L, daphnia 21 d NOEC 25 mg/L, activated sludge EC50 >100 mg/L; GESTIS cites a single EPA OPP 2000 database record of trout LC50 0.31 mg/L (1 study record only) - cited side by side as a divergent datum; Japanese quail/bobwhite acute oral LD50 981-1419 mg/kg bw; bee contact LD50 >25 ug/bee, oral LD20 >127 ug/bee; earthworm Eisenia foetida 14 d LC50 158.67 mg/kg artificial soil, 110.86 mg/kg natural soil (filter-paper 48 h LC50 98.97 ug/mm2)
REG_STATUS	Regulatory status - EU: metalaxyl-M is not listed as an approved active substance under Regulation (EC) No 1107/2009 (not approved; EFSA exposure data are grouped with metalaxyl); US EPA: registered, PC code 113502, tolerances under 40 CFR 180.546, metalaxyl RED 2002; UK HSE: approved (conditions amended October 2024); Canada PMRA: registered; China: registered (jing-jia-shuang-ling, MRLs under GB 2763 series); India CIB&RC: registered. MRL updates: EU honey raised to 0.1 mg/kg (January 2026); UK courgette/Chinese cabbage 0.2 mg/kg (October 2025)
JMPR_REF	JMPR 2002 toxicological evaluation established a group ADI of 0-0.08 mg/kg bw for metalaxyl and metalaxyl-M; the BCPC/PPDB manual lists ADI 0.025 mg/kg bw (NOEL rat 2.5, mouse 35.7, dog 8.0 mg/kg bw/day) - the two institutional figures are cited side by side, no single value adopted; JMPR 2004 evaluated residues and analytical methods only
GHS_STD	Standard precautionary and safety text per GHS/CLP guidance and Bosman SDS house style
OPEN	Not stated in any supplied or authoritative public source - open item, value NOT estimated

16.2 Revision and disclaimer

Version 1.0, 27 November 2026. First issue for the Menfenoxam 480 g/L EC product in this format. Classification follows the CLP Annex VI Table 3 harmonised entry of the active substance (index 612-163-00-0, H302 / H318, Danger, GHS07 + GHS05) applied under the CLP mixture rules; the transport entry is UN2902, Class 6.1, PG III, based on the estimated formulation oral ATE (the formulation flash point is OPEN and must be confirmed before shipment). Institution-specific reference doses (JMPR 2002 group ADI 0-0.08 mg/kg bw; BCPC/PPDB ADI 0.025; US EPA aPAD 0.5 and earlier chronic RfD 0.074) are cited side by side. The harmonised classification of the active substance is legally binding in the EU; the active substance is not approved for plant-protection use in the EU. Values not stated in named sources are marked OPEN and were NOT estimated. No third-party supplier, manufacturer, trade name or brand appears in this document.

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