

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Mabanol Radon Gear XHP GL 4 75W-80

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use

- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households / general public / consumers

Product category

PC24 Lubricants, greases, release products

Process category

- PROC2 Use in closed, continuous process with occasional controlled exposure
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental release category

- ERC9a Wide dispersive indoor use of substances in closed systems
ERC9b Wide dispersive outdoor use of substances in closed systems
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC7 Industrial use of substances in closed systems

Application of the substance / the mixture Transmission oil

1.3 Details of the supplier of the safety data sheet

Company name: Mabanol GmbH & Co. KG
Street: Admiralitätstraße 55
Place: D-20459 Hamburg
Responsible Department:
Telephone: +49 (0) 40 36809988

1.4. Emergency telephone: Giftinformationszentrale Göttingen
Telephone: 0551/1 92 40

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

- EUH208 Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched), 2-ethylhexyl methacrylate. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Mabanol Radon Gear XHP GL 4 75W-80
2.3 Other hazards
Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

| Dangerous components: | | |
|---|--|---------|
| CAS: 72623-87-1 EINECS: 276-738-4 Reg.nr.: 01-2119474889-13 | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ☠ Asp. Tox. 1, H304 | 25-50% |
| | Interchangeable low viscosity base oil (<20,5 cSt @40 °C) * ☠ Asp. Tox. 1, H304 | 2.5-10% |
| CAS: 36878-20-3 EINECS: 253-249-4 Reg.nr.: 01-2119488911-28 | bis(nonylphenyl)amine Aquatic Chronic 4, H413 | 1-2.5% |
| EC number: 931-384-6 Reg.nr.: 01-2119493620-38 | Reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) ☠ Eye Dam. 1, H318; ☠ Aquatic Chronic 2, H411; ☠ Acute Tox. 4, H302; Skin Sens. 1, H317 | 1-2.5% |

Additional information:

* Contains one or more of the following CAS-numbers: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-65-0, 64742-71-8, 68037-01-4, 72623-83-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 8042-47-5, 848301-69-9. For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures
5.1 Extinguishing media
Suitable extinguishing agents:

 CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See

Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required. Avoid the formation of oil haze.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:



Wear gloves for the protection against chemicals according to EN 374. Oil resistant gloves

Material of gloves

Nitrile rubber, NBR PVC gloves Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed.

Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

| | |
|---------|----------------|
| Form: | Liquid |
| Colour: | Light brown |
| Odour: | Characteristic |

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Drip point:

Pour point -45 °C (ASTM D97)

Flash point: 218 °C

Flammability (solid, gaseous): Not applicable.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Density at 20 °C: 0.855 g/cm³

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

40 °C 54.9 mm²/s (ASTM D445)

Solvent content:

Organic solvents: 0.0 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect:

Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation No irritating effect.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Sensitisation

For skin sensitisation: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

For respiratory sensitisation: Not expected to be a sensitiser.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

Other information: The product is difficultly biodegradable.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark:

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR,ADN, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR,ADN, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR,ADN, ADN, IMDG, IATA
Class Void

14.4 Packing group

ADR,ADN, IMDG, IATA Void

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Department issuing MSDS: Product safety department.

Contact: Product safety department

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO:

International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG:

International Maritime Code for Dangerous Goods IATA:

International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS:

European Inventory of Existing Commercial Chemical Substances ELINCS: European

List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) Acute

Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

Sources EC/453-2010