



AMMO SAFETY DATA SHEET (MSDS)

According to Regulation (EC) No. 1907/2006

RAIL CENTER PIGMENTS AMMO.R-2300 / 2309

English

Revision date / valid from: 17/02/2020

Version: 1

1. Identification of the substance/mixture and of the company/undertaking

Trade Name	RAIL CENTER PIGMENTS AMMO.R-2300 / AMMO.R-2309
Use of the substance/Mixture	Modelling pigments powder
Company	AMMO of Mig Jimenez, S.L.
Address	C/ Mauriain 3. 31132 Villatuerta, Navarra (Spain)
Telephone	+34 948 552 882
Email	info@ammo.es
Website	https://www.ammo.es
Emergency telephone number	+34 902 104 104. Emergency for intoxications and transport accidents. Service available 24h.

2. Hazards identification

2.1 Classification of the substance or mixture

No need for classification according to GHS criteria for this product.

2.2 Label Elements

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

Labelling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: 2-ETHYLHEXYL ACRYLATE

2.3 Other Hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/information on ingredients

3.1 Mixture

80-100% Iron oxide powder (PBr-6 / PR-101 / PY-42)

<20% Calcium carbonate (No. CE: 215-279-6)

4. First aid measures

4.1 Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.



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4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam.

5.2 Special hazards arising from the substance or mixture

Harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for firefighters

Further information: Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2 Environmental precautions.

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and materials for containment and cleaning up.

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and storage

7.1 Precautions for safe handling

No special measures necessary provided if product is used correctly.

Protection against fire and explosion: No special precautions necessary.



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7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place. Protect from temperatures below: -2 °C.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form: powder

Odour: no applicable information available.

Odour Threshold: no applicable information available.

pH value: 3 – 9

Freezing point: 0 °C Information applies to the solvent.

Onset of boiling: approx. 100 °C



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Flash point: No flash point - Measurement made up to the boiling point.

Evaporation rate: not determined

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition, we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition, we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature: No data available.

Relative density: 650-750 Kg/m³ (20 °C)

Solubility in water: insoluble

9.1. Information on basic physical and chemical properties

Hygroscopy: Non-hygroscopic

Surface tension: not determined

10. Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

No substances known that should be avoided.

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

11.1. Information on toxicological effects

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant (BASF-Test)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.



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Respiratory/Skin sensitization

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

No data was available concerning mutagenic activity.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

Developmental toxicity

Assessment of teratogenicity:

No data available.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects.

Repeated inhalative uptake of the substance did not cause substance-related effects.

Repeated dermal uptake of the substance did not cause substance-related effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

12. Ecological information

12.1 Toxicity

Assessment of aquatic toxicity:

No data available

Aquatic invertebrates:

No data available

Aquatic plants:

No data available.

Microorganisms/Effect on activated sludge:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.



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Chronic toxicity to fish:

No data available regarding toxicity to fish.

Chronic toxicity to aquatic invertebrates:

No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2 Persistence and degradability

Assessment biodegradation and elimination (H2O):

The polymer component of the product is poorly biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation potential:

At the present state of knowledge, no negative ecological effects are expected.

12.4 Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface. The product has not been tested. The statement has been derived from the properties of the individual components.

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6 Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7 Additional information

Add. remarks environm. fate & pathway:

Treatment in biological wastewater treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

According to experience, the material has no harmful effect on the environment.

13. Disposal considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.



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14. Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code IMDG:

IMDG: Not applicable.

Further information for transport

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.

15. Regulatory information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical safety assessment

Chemical Safety Assessment not yet performed due to registration timelines

16. Other information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular, this concerns the application for products that are the object of special standards and regulations.

Further information



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The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.