



Safety Data Sheet AP Microfine 10

SECTION 1: Identification

Product

Product Name AP Microfine 10
Classification Cementitious Grout

Recommended use of the chemical and restrictions on use
For grouting

Supplier's details

Name Alchemy-Spetec
Address 4508 Bibb Blvd
Tucker GA 30084

Telephone (404) 618-0438

Emergency phone number(s)

Call CHEMTREC Day or Night
1-800-424-9300 / +1 703-527-3887

SECTION 2: Hazards identification

Classification of the mixture

Toxicological health effects
- Skin corrosion/irritation, Category 1
- Serious eye damage/eye irritation, Category 1
- Specific target organ toxicity (single exposure), Category 3 (Respiratory tract irritation)
- Specific target organ toxicity (repeated exposure), Category 1 (Respiratory)

Signal Word

Danger

Hazards Statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation. (Respiratory tract irritation)
H372 Causes damage to organs through prolonged or repeated exposure. (Respiratory)

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Label Elements Hazard Pictograms



Precautionary Statements

P102	Keep out of reach of children.
P260	Do not breathe dust.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves and clothing as well as eye and face protection.
P270	Do not eat, drink or smoke when using this product.
P301 + P330 + P331	If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor/physician.
P303 + P361 + P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P363	Wash contaminated clothing before reuse.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a doctor/physician.
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/state/federal/national regulations.

SECTION 3: Composition/information on ingredients

Substances and Mixtures listed below with nonhazardous additions.

Raw Materials	Chemical Formula	CAS No.	Content
Portland Clinker	3CaO · SiO	12168-85-3	<50%
	2CaO · SiO ₂		
	3CaO · Al ₂ O ₃	12042-78-3	
	4CaO · Al ₂ O ₃ · Fe ₂ O ₃	-	
Gypsum	CaSO ₄	7778-18-9	<3%
Blast Furnace	CaO-Al ₂ O ₃ -MgO-SiO ₂ Amorphous	65996-69-2	50-80%

This material contains up to 50% of the same substance as Portland Cement (not including asbestos, crystalline silica < 1%) (CAS number: 65997-15-1).

SECTION 4: First-aid measures

Description of first aid measures

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Following Eye contact	Remove contact lenses (if wear,) and open the eyelids widely to flush eyes immediately by thoroughly rinsing with plenty of clean water for at least 15 minutes. Contact an eye specialist.
Following Skin contact	For dry cement: Remove and rinse abundantly with water. For wet cement: Wash skin with water. Remove contaminated clothing/footwear/jewelry, etc. and clean thoroughly before re-using them. Seek medical treatment, if irritation occurs.
Following Inhalation	Move to fresh air and keep at rest in a position comfortable for breathing. Contact a physician if irritation persists or later develops or if discomfort, coughing or other symptoms subside.
Following Ingestion	Do not induce vomiting. If person is conscious, wash out mouth with water and give plenty of water to drink. Get immediate medical attention or contact anti poison centre.
Indication of any immediate medical attention & special treatment needed.	When contacting a doctor/physician, take this SDS or the product label with you. IF IN EYES: Contact a specialist of occupational medicine or an eye specialist, preferably an ophthalmologist.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

The product is not combustible, hereinafter referred occurs nearby.

Special hazards arising from substance/mixture

Not applicable

Advice for firefighters

Common cement poses no fire-related hazards. Wear complete protective clothing including self-contained breathing apparatus.

Do not breathe fumes.

SECTION 6: Accidental release measures

Personal precautions, protective equipment & emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

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

Methods and material for containment and cleaning up

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Carefully sweep up material (avoid generating dust) and place in a chemical container, using vacuum cleaner.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

Store and handle in accordance with all current regulations and standards.

Precautions for safe handling

Wear suitable protective equipment (protective gloves, boots, glasses, mask) to prevent any contamination of skin or eyes.

Rinse mouth and wash hands and face well after use.

Provide adequate ventilation in an indoor workplace.

If the product is in bags, do not handle the bag roughly which may cause paper breaking. Because this product is alkaline, avoid contact with acidic products.

Conditions for safe storage

Keep away from any possible contact with water. Store in a dry place.

Prevent outsider from contacting.

Safe container packaging materials

Moisture-proof container

SECTION 8: Exposure controls/personal protection

Equip ventilation must be provided to control airborne contamination level below specified or allowable limit. Equip electrostatic precipitator at work area where handling this product so much.

Control parameters

Components with limit values that require monitoring at the workplace:

7778-18-9 calcium sulphate, natural

PEL

Long-term value: 15* 5** mg/m³

*total dust **respirable fraction

REL

Long-term value: 10* 5** mg/m³

*total dust **respirable fraction

TLV

Long-term value: 10* mg/m³

*as inhalable fraction

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

Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment

Self-contained respiratory protective device.

Protection of hands



Protective gloves

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The glove material has to be impermeable and resistant to the product/the substance/the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of 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 cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of 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



Tightly sealed goggles

Body protection



Boots



Apron

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance

Form	Powder
Color	Grayish white
Odor	Odorless

pH-value	12-13 (Contact with water)
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Change in condition

Melting point/Melting range	1350 °C (2462 °F)
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Boiling point/Boiling range	Undetermined.
Flash point	Not applicable.
Danger of explosion	Product does not present an explosion hazard.
Density at 20 °C (68 °F)	2.9-3.1 g/cm ³ (24.20-25.87 lbs/gal)
Solubility in/Miscibility with water	Insoluble.
Other information	Hydraulic in water

SECTION 10: Stability and reactivity

Reactivity

Stable under normal handling condition. Reacts with water to solidify stable.

Possibility of hazardous reactions

Reacts with water and acids.

Conditions to avoid

Avoid direct sunlight.

Incompatible materials

Water and acidic products

Hazardous decomposition products

Corrosive gases/vapors

SECTION 11: Toxicological information

Hazard Class	Category/Effect
Acute toxicity – oral	Unable to classify due to lack of data.
Acute toxicity – dermal	Unable to classify due to lack of data.
Acute toxicity – inhalation	Unable to classify due to lack of data.
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	It exhibits strong alkaline (pH12-13) in contact with water, there is irritation to the eye, nose, skin, the cornea of the eye, the internal tissues of the nose, there is a possibility of inflammation in the skin. As a result, this section was a Category 1.
Skin sensitization	Unable to classify due to lack of data. Contains a very small amount of chromium compounds, allergic when it is irritable with hexavalent chromium-there is a possibility that occurs.
Respiratory sensitization	Unable to classify due to lack of data.
Germ cell mutagenicity	Unable to classify due to lack of data.
Hazard Class	Category/Effect
Carcinogenicity	Unable to classify due to lack of data. A craftsman dealing with concrete and cement that inhaled the dust of Portland Cement The results of epidemiological studies on cement plant workers, etc., increase the mortality rate of lung cancer or other organs of cancer (bladder cancer, gastric cancer, rectal cancer, etc.) Or, while there are several reports that an increase in the ratio of standardization (SIR) was seen there are reports that the cancer of the lung and other organs is not

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increased, and the correlation analysis results with the gambling concentration of the carcinogenic frequency is generally missing (ACGIH (7th , 2010)). As for the respiratory system cancer, since all research reports have not been evaluated by sufficiently eliminating the effects of smoking, ACGIH is inconsistent with the carcinogenic effects of the exposure dew of Portland cement. As the evidence is insufficient to classify to A3, Portland Cement (not including asbestos, crystalline silica <1%) was classified into A4 (ACGIH (7th, 2010)). In addition, no carcinogenic evaluation by other international organizations has been conducted, and based on the above, this section was "unable to classify" due to lack of data.

Reproductive toxicity

Unable to classify due to lack of data.

Specific target organ toxicity (single exposure)

Category 3 (Respiratory tract irritation)
There are reports that Portland cement has airway irritation (ACGIH (7th, 2010)), but there is no other information. As a result, this section was a Category 3 (Respiratory tract irritation).

Specific target organ toxicity (repeated exposure)

Category 1 (Respiratory)
In the inhalation path, a benign pneumoconiosis occurs in humans, bronchitis, respiratory difficulty, cough, phlegm, emphysema, there is a report that chest pain is seen (ACGIH (7th, 2010), DFGOTvol.11 (1998)). There is no useful information about experimental animals. Therefore, the respiratory tract is considered to be a target organ, and is seen in humans, as a result, this section was a Category 1 (Respiratory).

Aspiration hazard

Unable to classify due to lack of data.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

SECTION 12: Ecological information

Aquatic toxicity

No further relevant information available.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

Additional ecological information

General notes:

Water hazard class 1 (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.

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Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values.
A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment

PBT

Not applicable.

vPvB

Not applicable.

Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

Waste treatment methods

Recommendation:

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

Un cleaned packagings

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

UN NUMBER

Not Regulated

Specific safety measures and conditions for the transport

Transport in a ways no dust.

Absolutely do prevention of "bag broken", "damage", "leakage from the containers", "cargo collapse", etc.
Be careful in the moisture and the Water exposure

SECTION 15: Regulatory information

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

Sara

Section 355 (extremely hazardous substances)

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings)

None of the ingredients is listed.

TSCA (Toxic Substances Control Act)

65996-69-2

Slags, ferrous metal, blast furnace

12168-85-3

Tricalcium silicon pentaoxide

12042-78-3

Dialuminium tricalcium hexaoxide

7778-18-9

calcium sulphate, natural

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Proposition 65

Chemicals known to cause cancer

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males

None of the ingredients is listed.

Chemicals known to cause developmental toxicity

None of the ingredients is listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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.

Contact

NIPPON STEEL CEMENT CO., LTD

TEL: +<81>-143-44-1166

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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)
NFPA	National Fire Protection Association (USA)
HMIS	Hazardous Materials Identification System (USA)

References

National Institute of Technology and Evaluation: Government-based GHS classification results name: Portland Cement (not including asbestos, crystalline silica <1%)

Safety Data sheet of "blast furnace slag (fine powder)" issued by each producer