

MacDermid Enthone

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

METEX PS ACTIVAX

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

1.1 Product identifier

Product name : METEX PS ACTIVAX
Product code : 186115

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

Identified uses

Industrial cleaners.
Industrial applications.

1.3 Details of the supplier of the safety data sheet

e-mail address of person responsible for this SDS : sdsuk@macdermid.com; regulatory.de@macdermid.com

Supplier : MacDermid Performance Solutions UK Limited
198 Golden Hillock Road
Birmingham
B11 2PN
UK

Information contact : Tel (+44) 121 606 8100
ukcustomer.services@macdermid.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : UK NPIS 0344 892 0111 (Healthcare professionals only)

Supplier

Telephone number : Carechem24: (+44) 1865 407333; (+44) 1235 239 670 (across Europe)
Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Met. Corr. 1, H290
Skin Corr. 1A, H314
Eye Dam. 1, H318

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

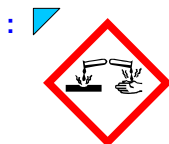
See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms



Signal word : **Danger**

Hazard statements : **H290** - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

Precautionary statements

Prevention : **P280** - Wear protective gloves, protective clothing and eye or face protection.

Response : **P304 + P310** - IF INHALED: Immediately call a POISON CENTER or doctor.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.

Storage :

Disposal : **P501** - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : **Sodium hydroxide**
tetrasodium pyrophosphate
disodium metasilicate
Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide

Supplemental label elements : **Not applicable.**

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : **Not applicable.**

Special packaging requirements

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : **This mixture does not contain any substances that are assessed to be a PBT or a vPvB.**

Other hazards which do not result in classification : **None known.**

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|--|--|-----------|---|---------|
| Sodium hydroxide | REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6 | ≥25 - ≤50 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 | [1] [2] |
| tetrasodium pyrophosphate | REACH #: 01-2119489794-17 EC: 231-767-1 CAS: 7722-88-5 | ≥10 - <25 | Acute Tox. 4, H302 Eye Dam. 1, H318 | [1] [2] |
| Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | REACH #: 01-2119449811-37 EC: 229-912-9 | ≥10 - <20 | Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 | [1] |

SECTION 3: Composition/information on ingredients

| | | | | |
|--|---|-----------|---|-----|
| sodium carbonate | CAS: 10213-79-3 Index: 014-010-00-8 REACH #: 01-2119485498-19 EC: 207-838-8 CAS: 497-19-8 Index: 011-005-00-2 | ≥10 - ≤25 | STOT SE 3, H335 Eye Irrit. 2, H319 | [1] |
| Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide | REACH #: 01-2119565112-48 EC: 932-051-8 | ≤10 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above. | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains
Corrosive to the digestive tract.
Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Non-combustible.
Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water. Violent reaction may occur.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : Specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Absorb spillage to prevent material damage. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Absorb spillage to prevent material damage. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

SECTION 7: Handling and storage

Recommendations : No specific measures identified.

Industrial sector specific solutions : No specific measures identified.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---------------------------|---|
| sodium hydroxide | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2 mg/m ³ 15 minutes. |
| tetrasodium pyrophosphate | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 5 mg/m ³ 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

EU DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--|------|-----------------------|-------------------------|--------------------|----------|
| sodium hydroxide | DNEL | Long term Inhalation | 1 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Local |
| tetrasodium pyrophosphate | DNEL | Long term Inhalation | 4.35 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 17.63 mg/m ³ | Workers | Systemic |
| Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | DNEL | Long term Oral | 0.74 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.74 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 1.49 mg/kg bw/day | Workers | Systemic |
| sodium carbonate | DNEL | Long term Inhalation | 1.55 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 6.22 mg/m ³ | Workers | Systemic |
| sodium carbonate | DNEL | Long term Inhalation | 10 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 10 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 10 mg/m ³ | Workers | Local |
| Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide | DNEL | Long term Dermal | 85 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 6 mg/m ³ | Workers | Systemic |

EU PNECs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--|------------------------|---------------|--------------------|
| Tetrasodium pyrophosphate | Fresh water | 0.05 mg/l | Assessment Factors |
| | Marine water | 5 µg/l | Assessment Factors |
| | Sewage Treatment Plant | 50 mg/l | Assessment Factors |
| Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | Fresh water | 7.5 mg/l | - |
| | Marine water | 1 mg/l | - |
| | Sewage Treatment Plant | 1000 mg/l | - |
| Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide | Fresh water | 0.268 mg/l | - |
| | Marine water | 0.0268 mg/l | - |
| | Sewage Treatment Plant | 5.6 mg/l | - |
| | Fresh water sediment | 8.1 mg/kg dwt | - |
| | Marine water sediment | 8.1 mg/kg dwt | - |
| | Soil | 35 mg/kg dwt | - |

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If inhalation hazards exist, a full-face respirator may be required instead. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Face shield. Use eye protection according to EN 166.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Recommendations: In splash contact: 1 - 4 hours (breakthrough time): polyvinyl chloride (PVC), neoprene. Long term exposure: > 8 hours (breakthrough time): butyl rubber, fluorinated rubber. (thickness: 0.5 mm) Wear suitable gloves tested to EN374.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
In case of inadequate ventilation wear respiratory protection: particulate filter
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Solid. [Crystalline powder.]
- Colour** : Off-white.
- Odour** : Bland.
- Odour threshold** : There are no data available on the mixture itself.
- Melting point/freezing point** : There are no data available on the mixture itself.
- Initial boiling point and boiling range** : Not available.
- Flammability (solid, gas)** : There are no data available on the mixture itself.
- Upper/lower flammability or explosive limits** : Not applicable.
- Flash point** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : There are no data available on the mixture itself.
- pH** : 10 [Conc. (% w/w): 1%]
- Viscosity** : Not applicable.
- Solubility(ies)** :

| Media | Result |
|------------|----------------|
| cold water | Easily soluble |

- Solubility in water** : There are no data available on the mixture itself.
- Partition coefficient: n-octanol/ water** : Testing not technically possible.
- Vapour pressure** : Not available.
- Evaporation rate** : There are no data available on the mixture itself.
- Relative density** : There are no data available on the mixture itself.
- Vapour density** : Not applicable.
- Explosive properties** : There are no data available on the mixture itself.
- Oxidising properties** : There are no data available on the mixture itself.
- Particle characteristics**
- Median particle size** : Not relevant/applicable due to nature of the product.

9.2 Other information

- SAPT** : Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : Extremely reactive or incompatible with the following materials: acids.
Highly reactive or incompatible with the following materials: metals.
Reacts violently with water, especially when water is added to the product.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:
metals
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-------------|---------|-------------|----------|
| tetrasodium pyrophosphate sodium carbonate Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide | LD50 Oral | Rat | 4 g/kg | - |
| | LD50 Oral | Rat | 4090 mg/kg | - |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |

Conclusion/Summary : Not tested

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|-----------------------|-------------------|--------------------------|-----------------------------|-------------------------------------|
| METEX PS ACTIVAX tetrasodium pyrophosphate sodium carbonate | 2336.4 500 4090 | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A | N/A N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|---------------------------|-------------|
| sodium hydroxide | Eyes - Mild irritant | Rabbit | - | 400 ug | - |
| | Eyes - Severe irritant | Monkey | - | 24 hours 1 % | - |
| | Eyes - Severe irritant | Rabbit | - | 1 % | - |
| | Eyes - Severe irritant | Rabbit | - | 0.5 minutes | - |
| | | | | 1 mg | |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 50 ug | - |
| | Skin - Mild irritant | Human | - | 24 hours 2 % | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 mg | - |
| sodium carbonate | Eyes - Mild irritant | Rabbit | - | 0.5 minutes | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 mg 24 hours 100 mg | - |

SECTION 11: Toxicological information

| | | | | | |
|--|--|------------------|--------|-----------------------------|--------|
| | Eyes - Severe irritant Skin - Mild irritant | Rabbit Rabbit | - - | 50 mg 24 hours 500 mg | - - |
|--|--|------------------|--------|-----------------------------|--------|

Conclusion/Summary

- Skin : Not tested
- Eyes : Not tested
- Respiratory : Not tested

Sensitisation

Conclusion/Summary

- Skin : Not tested
- Respiratory : Not tested

Mutagenicity

- Conclusion/Summary : Not tested

Carcinogenicity

- Conclusion/Summary : Not tested

Reproductive toxicity

- Conclusion/Summary : Not tested

Teratogenicity

- Conclusion/Summary : Not tested

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|------------------------------|
| <input checked="" type="checkbox"/> Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

- Information on likely routes of exposure : Not tested

Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact : Causes severe burns.
- Ingestion : Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

SECTION 11: Toxicological information

Ingestion : Adverse symptoms may include the following:
stomach pains
Corrosive to the digestive tract.
Causes burns.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : No known significant effects or critical hazards.

SECTION 12: Ecological information**12.1 Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|--|------------------------------------|--|----------|
| Sodium hydroxide | Acute LC50 125 ppm Fresh water | Fish - Western mosquitofish - Gambusia affinis - Adult | 96 hours |
| tetrasodium pyrophosphate | Acute LC50 391000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 1380 ppm Fresh water | Fish - Western mosquitofish - Gambusia affinis - Adult | 96 hours |
| Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | Acute EC50 58.3 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| sodium carbonate | Acute EC50 242000 µg/l Fresh water | Algae - Diatom - Navicula seminulum | 96 hours |
| | Acute LC50 176000 µg/l Fresh water | Crustaceans - Scud Order - Amphipoda | 48 hours |
| | Acute LC50 265000 µg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 300000 µg/l Fresh water | Fish - Bluegill - Lepomis macrochirus | 96 hours |

Conclusion/Summary : Ecological testing has not been conducted on this product.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| METEX PS ACTIVAX | - | - | Not readily |
| tetrasodium pyrophosphate | - | - | Not readily |
| Silicic acid (H ₂ SiO ₃), disodium salt, pentahydrate | - | - | Not readily |
| Reaction product of benzenesulfonic acid, 4-C10-13-sec-alkyl derivs and benzenesulfonic acid, 4-methyl- and sodium hydroxide | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| sodium hydroxide | -3.88 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.




Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|--|---|---|---|
| 14.1 UN number | UN3262 | UN3262 | UN3262 |
| 14.2 UN proper shipping name | <input checked="" type="checkbox"/> CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, disodium trioxosilicate) | <input checked="" type="checkbox"/> CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, disodium trioxosilicate) | <input checked="" type="checkbox"/> CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, disodium trioxosilicate) |
| 14.3 Transport hazard class(es) | 8  | 8  | 8  |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | No. | No. | No. |

Additional information

ADR/RID : **Tunnel code** E
IMDG : **Emergency schedules** F-A, S-B
IMDG Code Segregation group SGG18 - Alkalis

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable - not transported in bulk

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK (GB) /REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = GB CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification |
|---|--|
| Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 | Calculation method Calculation method Calculation method |

Full text of abbreviated H statements

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications

| | |
|-------------------|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Met. Corr. 1 | CORROSIVE TO METALS - Category 1 |
| Skin Corr. 1A | SKIN CORROSION/IRRITATION - Category 1A |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

Date of printing : 19 June 2023

Date of issue/ Date of revision : 3 May 2023

Date of previous issue : 1 April 2022

Version : 1.02

Notice to reader

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MacDermid Enthone SDS CLP Europe
(transfer)