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| Manual | Material Safety Data Sheet | Written by: | K.C. McCarthy |
| Title: | Unisan Plus Powder | Revision: | 1 |
| Section No.: | MSDSP C006 | Date: | 232/01/2017 |
| Approved by: | R. McCarthy | Page: | 1 of 12 |

SAFETY DATA SHEET
According to Regulation (EC) No. 453/2010

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

1.1. Product Identifiers

Trade name: Unisan Plus Powder

Registration number N/A
CAS number N/A
EC index number N/A
EINECS number N/A

1.2. Product Identifiers

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

- Material for industrial applications
- Industrial and professional use

1.3. Supplier's details

- Company: Biocel Ltd.
- Address: Rockgrove Industrial estate, Little Island, Co. Cork, Ireland
- Telephone: +353(021)4353516
- Fax: +353(021)4354358
- Contact Email info@biocel.ie

1.4. Emergency telephone number

-Emergency telephone number (outside of office hours): +353(021)4353516

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (1272/2008/CE):

Skin Corrosion, Category 1A (H314)
Corrosive to metals, Category1 (H290)

Classification (2006/121/EC, 1999/45/EC):

Causes severe burns.

2.2 Label elements

Hazardous components which must be listed on the label: Sodium hydroxide

Labelling (1272/2008/CE):



Danger

Hazard statements:

| | | | |
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H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary statements:

- P102 Keep out of reach of children.
P260 Do not breathe dust or mist.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+ P330+ p331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+ P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+ P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 IF exposed or concerned:
P310 Immediately call a POISON CENTER or a doctor/physician.
P405 Store locked up

Labelling (2006/121/EC, 1999/45/EC):

Labelling and classification in accordance with the EC Dangerous Preparations Directive (1999/45/EC) and subsequent amendments

- C Corrosive
Contains: Sodium Hydroxide
R-phrases): R35 Causes severe burns.
S-phrases): S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. Composition/information on ingredients

3.1 Type of product: Mixture powder

Hazardous components

Sodium hydroxide (caustic soda)

| | | |
|--------------------------------|-----------------|-------------------|
| Concentration (%): | 70-80 | |
| CAS-No.: | 1310-73-2 | |
| EINECS-No.: | 215-185-5 | |
| Index-No.: | 011-002-00-6 | |
| Classification (1272/2008/CE): | Met.Corr.1 H290 | Skin Corr.1A H314 |

Specific threshold concentration (GHS):

| | | |
|---------------|------|----------|
| Skin Corr. 1A | H314 | ≥ 5% |
| Skin Corr. 1B | H314 | 2 ≤ 5% |
| Skin Irrit. 2 | H315 | 0.5 ≤ 2% |
| Eye Irrit. 2 | H319 | 0.5 ≤ 2% |

Classification (37/548/EEC): C R35

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Specific threshold concentration

| | | |
|----|--------|----------|
| Xi | R36/38 | 0.5 ≤ 2% |
| C | R34 | 2 ≤ 5% |
| C | R35 | ≥ 5% |

4. First-aid measures

4.1 Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

If inhaled: Bring accident victims out into the fresh air. If patient has difficulty in breathing, administer oxygen, keep the patient calm and warm. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of water. Apply sterile protective bandage; consult GP.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

If swallowed: If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce the patient to vomit, medical advice is required.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: See Section 11 for information on toxicology.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: Basic first aid, decontamination, symptomatic treatment. Treat with a corticoid metered aerosol depending on the amount inhaled.

5. Fire-fighting measures

5.1 Suitable extinguishing media: Carbon dioxide (CO₂), foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture:

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.



5.3 Advice for fire-fighters:

During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Containers at risk of fire should be cooled with water and, if possible removed from the danger area. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Put on protective equipment (see Section 8). Ensure adequate ventilation/exhaust extraction. Keep

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unauthorized persons away.

6.2.1 Environmental precautions: Do not flush into surface water or sanitary sewers system.

6.3 Methods and material for containment and cleaning up:

Take up with absorbent for chemicals or, if necessary with dry sand. Fill into labelled, sealable containers. Also place used cleaning materials into closable receptacles.

6.4 Reference to other sections: For further disposal measures see Section 13.

7. Handling and storage

7.1 Precautions for safe handling:

Handle and open container with care. Provide sufficient air exchange and/or exhaust in work rooms. Organize work procedures so that workers are not exposed to the effects of the products. Vent waste air only via suitable separator or scrubbers.

Precautions should generally be taken against electrostatic charges according to the equipment used and the way the product is handled and packaged.

The precautions required in the handling of irritant or corrosive substances must be taken.

Contact with skin and eyes and inhalation of vapors must be avoided under all circumstances.

Careful attention to industrial and personal hygiene is essential.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of work day. Keep working clothes separately. Change contaminated or soaked clothing immediately. If the suit becomes contaminated, first take a shower with the suit on.

Keep away from incompatible products and naked flames/heat.

Do not discharge the waste into drains.

The general conditions of use are further specified in the exposure scenarios which may be found in the attached annex.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated area.

Keep in properly labeled closed containers.

Keep away from incompatible products and naked flames/heat.

Protect against frost.

Keep away from: -combustible materials, -(strong) acids, -metals

Suitable packaging material:

-stainless steel -nickel

-polyethylene -polypropylene

-glass -stoneware/porcelain

Non suitable packaging material:

-lead -aluminium -copper

-zinc -bronze -tin

7.3 Specific end use(s):

For further information contact the supplier.

8. Exposure Controls/Personal Protection

8.1 Control parameters

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Components with workplace control parameters

| Substance | CAS-No. | Basis | Type | Value | Ceiling Limit Value |
|------------------------------------|-----------|----------|------|--------------------|---------------------|
| Sodium Hydroxide (Caustic Soda) | 1310-73-2 | EH40 WEL | STEL | 2mg/m ³ | |

For technical protective measures to limit exposure see also Section 7 "Handling and storage".
The general RMMs are further specified in the exposure scenarios which may be found in the attached annex.

Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL):

Sodium hydroxide (caustic soda)

Worker (short-term)

| | |
|----------------------------------|-------------------|
| DNEL Dermal - local effects: | < 2 % |
| DNEL Inhalation - local effects: | No data available |

Worker (long-term)

| | |
|---|-------------------------|
| DNEL Dermal - local effects: | No data available |
| DNEL Inhalation - local effects: | 1 mg/m ³ air |
| Most sensitive endpoint: Irritation (respiratory tract) | |

Predicted No Effect Concentration (PNEC):

Sodium hydroxide (caustic soda)

| | |
|-------------------------------|----------------|
| Freshwater: | Not applicable |
| Marine water: | Not applicable |
| Sediment: | Not relevant |
| Soil: | Not relevant |
| STP (sewage-treatment plant): | Not applicable |
| Oral: | Not relevant |

8.2 Exposure controls

Respiratory protection:

Recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix.

Hand protection:

Suitable materials for safety gloves; EN 374:

| | | |
|--------------------------|-------------------------|-----------------------------|
| Nitrile rubber- NBR: | thickness ≥ 0,35mm; | breakthrough time ≥ 480min. |
| Polyvinyl chloride- PVC: | thickness ≥ 0,5mm; | breakthrough time ≥ 480min. |
| Polychloroprene- CR: | thickness ≥ 0,5mm; | breakthrough time ≥ 480min. |
| Butyl rubber IIR: | thickness ≥ 0,5mm; | breakthrough time ≥ 480min. |
| Fluorinated rubber- | FKM: thickness ≥ 0,4mm; | breakthrough time ≥ 480min. |

Recommendation: contaminated gloves should be disposed of.

Eye protection:

Wear eye/face protection.

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Skin and body protection:

Impervious protective clothing. On possible contact with the product (sampling, product leakage): full protection or chemical protection clothing.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------|
| Appearance: | Powder |
| Colour: | White |
| Odour: | Odourless |
| Odour Threshold: | Not established |
| pH: | >14 at 100g/l at 20°C |
| Melting point/range: | 318°C |
| Boiling point/range: | 1380°C |
| Flash point: | Not applicable |
| Evaporation rate: | Not established |
| Flammability(solid, gas): | Not applicable |
| Burning number: | Not applicable |
| Vapour pressure: | Not established |
| Vapour density: | Not established |
| Density: | 1.1 - 1.2 g/cm ³ |
| Surface tension: | Not established |
| Partition coefficient (n-octanol/water): | Not established |
| Autoignition temperature: | Not applicable |
| Ignition temperature: | Not applicable |
| Decomposition temperature: | Not established |
| Viscosity, dynamic: | 79 mPa.s at 20°C |
| Explosive properties: | Not established |
| Dust explosion class: | Not applicable |
| Oxidising properties: | Not established |

9.2 Other information

Miscibility with water: Miscible

10. Stability and Reactivity

10.1 Reactivity:

Exothermic reaction with water.
Violent exothermic reaction with strong acids.
Reacts with some metals to release hydrogen.

10.2 Stability:

Stable under recommended storage conditions.
Hygroscopic.
Absorbs atmospheric CO₂.

10.3. Possibility of hazardous reactions

Reacts with (some) metals e.g. Aluminium, Magnesium, Zinc: release of highly flammable gases/vapours (hydrogen).

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On heating: release of corrosive gases/vapours.
 Reacts violently with Acids.

10.4 Conditions to avoid: -Over heating -Freezing -Direct sunlight -Moisture

10.5 Materials to avoid: -Combustible materials -Strong acids -Metals -Oxidising agents

10.6 Hazardous Decomposition Products:

Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).
 On heating: release of corrosive gases/vapours.
 No hazardous decomposition if stored and handled correctly.

11. Toxicological Information

Toxicological studies on the product are not yet available. Please find below the data available to us:

11.1 Information on toxicological effects

Acute toxicity, oral: Sodium Hydroxide (Caustic Soda) No valid data available.
Acute toxicity, dermal: Sodium Hydroxide (Caustic Soda) No valid data available.
Acute toxicity, inhalation: Sodium Hydroxide (Caustic Soda) No valid data available.

Primary skin irritation: Sodium Hydroxide (Caustic Soda) In vitro test system
 Classification: Causes severe burns. Result: Corrosive
 Method: In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX

Primary mucosae irritation: sodium hydroxide (caustic soda) Rabbit
 Classification: Causes severe burns.
 Result: Risk of serious damage to eyes.

Sensitisation: Sodium Hydroxide (Caustic Soda) No known sensitising effect

Subacute, subchronic and prolonged toxicity:
 Sodium Hydroxide (Caustic Soda) No valid data available.

Carcinogenicity: sodium hydroxide (caustic soda) No data available.

Reproductive toxicity/Fertility:
 Sodium Hydroxide (Caustic Soda) No data available.

Reproductive toxicity/Teratogenicity:
 Sodium Hydroxide (Caustic Soda) No data available.

Genotoxicity in vitro: Sodium Hydroxide (Caustic Soda)
 Test type: Salmonella/microsome test (Ames test) Result: No indication of mutagenic effects.
 Test type: Chromosome aberration test in vitro Result: negative

Genotoxicity in vivo: Sodium Hydroxide (Caustic Soda) No valid data available.

STOT evaluation – one-time exposure: Sodium Hydroxide (Caustic Soda)
 Based on available data, the classification criteria are not met.

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STOT evaluation – repeated exposure: Sodium Hydroxide (Caustic Soda)

Based on available data, the classification criteria are not met.

Aspiration toxicity: Sodium Hydroxide (Caustic Soda)

Based on available data, the classification criteria are not met.

CMR Assessment: Sodium Hydroxide (Caustic Soda)

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

Toxicology Assessment: SODIUM HYDROXIDE (CAUSTIC SODA)

Acute effects: The product causes burns of eyes, skin and mucous membranes.

Additional information: sodium hydroxide (caustic soda) May cause caustic burns to the mouth, throat or stomach if swallowed. After swallowing danger of stomach perforation. On inhalation: Irritation of mucous membrane, coughing and shortness of breath.

12. Ecological Information

Do not allow to escape into waterways, wastewater or soil.

Ecotoxicological studies of the product are not available.

Please find below the data available to us:

12.1 Toxicity

Acute Fish toxicity:

Sodium Hydroxide (Caustic Soda)

LC₅₀ 35 - 189 mg/l

Species: Fish

Effect concentrations in the aquatic environment are attributable to a change in pH value.

Acute toxicity for daphnia:

Sodium hydroxide (caustic soda)

EC₅₀ 40.4 mg/l

Species: Ceriodaphnia sp.

Exposure duration: 48 h

Effect concentrations in the aquatic environment are attributable to a change in pH value.

Acute toxicity for algae:

Sodium hydroxide (caustic soda)

No data available.

Effect concentrations in the aquatic environment are attributable to a change in pH value.

Acute bacterial toxicity:

Sodium Hydroxide (Caustic Soda) No valid data available.

Effect concentrations in the aquatic environment are attributable to a change in pH value.

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Ecotoxicology Assessment:

Sodium Hydroxide (Caustic Soda)

Neutralisation will reduce ecotoxic effects.

A chronic aquatic toxicity is not expected.

Not expected to adsorb on soil.

Neutralization is normally necessary before waste water is discharged into water treatment plants.

12.2 Persistence and degradability

Biodegradability:

sodium hydroxide (caustic soda)

The methods for determining the biological degradability are not applicable to inorganic substances.

Stability in water:

sodium hydroxide (caustic soda)

Not applicable

Photodegradation:

sodium hydroxide (caustic soda)

No data available

Volatility (Henry's Law constant):

Sodium hydroxide (caustic soda)

The substance has to be scored as non-volatile from water.

12.3 Bioaccumulative potential

Bioaccumulation:

sodium hydroxide (caustic soda)

An accumulation in aquatic organisms is not to be expected.

12.4 Mobility:

Distribution among environmental compartments:

sodium hydroxide (caustic soda)

Adsorption/Soil

Mobile in soils

Environmental distribution:

sodium hydroxide (caustic soda)

The target compartment is water.

12.5 Results of PBT and vPvB assessment

sodium hydroxide (caustic soda)

This substance does not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects:

sodium hydroxide (caustic soda)

Toxic effect on fish, plankton and on sedentary organisms, also through shifting of pH value.



Causes no biological oxygen consumption.

No inhibition of activity of waste bacteria after neutralization.

13. Disposal Considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste

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Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

No disposal into surface or waste water.

14. Transport Information

ADR/RID

UN Number: 1823
Description of the goods: Sodium Hydroxide Solid
Packaging group: II
Hazard identification No: 80
Hazard label: 8
Environmentally Hazardous: No
Limited quantity regulations applicable in accordance with chapter 3.4 ADR/RID in compliance with threshold value.

15. Regulatory Information

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

Any existing national regulations on the handling of irritant or corrosive substances must be observed.

National provisions:

Relevant Statutory Instruments

- Carriage of Dangerous Goods by Road Regulations 2007, S.I. 288 of 2007
- Carriage of Dangerous Goods by Road (ADR miscellaneous provisions) Regulations 2007, S.I.289 of 2007
- Carriage of Dangerous Goods by Road Act 1998 (Appointment of Competent Authorities) Order 2007, S.I.290 of 2007
- Carriage of Dangerous Goods by Road Act 1998 (Fees) Regulations 2007, S.I. 291 of 2007
- Chemicals Act 2008, No. 13 of 2008
- ADR 2011
- Safety, Health and Welfare at Work (Chemical Agents) Regulation 2001, SI 619 of 2001

EU Legislation:

Classification (1272/2008/CE):

Classification and labelling according to Regulation (EC) No 1272/2008 – Annex VI and after evaluation of available test data

Skin Corrosion, Category 1A (H314)
Corrosive to metals, Category1 (H290)

Labelling (1272/2008/CE):

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Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Precautionary statements:

- P260 Do not breathe dust or mist.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+ P330+ p331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+ P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+ P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 IF exposed or concerned:
- P310 Immediately call a POISON CENTER or a doctor/physician.

Classification Classification and labelling according with Directives 67/548/EEC and 1999/45/EC



Labelling (2006/121/EC, 1999/45/EC):

Labelling and classification in accordance with the EC Dangerous Preparations Directive (1999/45/EC) and subsequent amendments

C Corrosive

Contains: sodium hydroxide

R-phrases 35 Causes severe burns

S-phrases

- (01/02) (Keep locked up and out of the reach of children)
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37/39 Wear suitable gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for: sodium hydroxide (caustic soda)

16. Other information

PBT-substances: Persistent, bioaccumulative and toxic substances

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DSD: Dangerous Substance Directive
 DPD: Dangerous Preparation Directive
 CLP (EU-GHS): Classification, labelling and packaging
 (Globally Harmonised System in Europe)
 Met. Corr.: Substance or mixture corrosive to metals
 Skin Corr.: Skin corrosion

Note:

The information contained in this data sheet is copied from the safety data sheet provided by the manufacturer. The information is given in good faith and to the best of our knowledge but no guarantee, implied or otherwise, is made.

Revision History

| Changes | Responsible | Date |
|---------|-------------|------|
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