

Material Safety Data Sheet


PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- 1.1 Product name : DYWELL-DN (25KG)
- 1.2 Product type : Powder
- 1.3 Recommended use : Formulation auxiliary for the chemical industry
- 1.4 Supplier : KG CHEMICAL CO., LTD.
322 DANGWEOL-RO ONSAN-EUP ULSAN-SI, KOREA
: (Tel)/82-2-2680-4406/, (Fax) /82-2-2680-4409
- 1.5 Emergency telephone number : (Tel)/82-52-231-1750

2. HAZARDS IDENTIFICATION

- 2.1 GHS Classification : According to Regulation (EC) No.1272/2008
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
- 2.2 Label Elements
- Pictogram : 
 - Signal word : Warning
 - Hazard statement(s)
 - H315 : Causes skin irritation
 - H319 : Causes serious eye irritation
 - Precautionary statement(s)
 - P264 : Wash ... thoroughly after handling
 - P280 : Wear protective gloves/protective clothing/eye protection /face protection
 - P302+P352 : IF ON SKIN: Gently wash with plenty of soap and water
 - P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P332+P313 : If skin irritation occurs: Get medical advice/attention
 - P362+P364 : Take off contaminated clothing and wash it before reuse
- 2.3 NFPA Ratings(Scale 0~4) : Health : 1, Fire : 1, Reactivity : 0
- 2.4 HMIS Ratings(Scale 0~4) : Health : 1, Fire : 1, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Name of chemical : Benzenesulfonic acid, hydroxyl-, polymer with formaldehyde, phenol and urea, sodium salt

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

3.2 Composition

| <u>Ingredients</u> | <u>CAS No.</u> | <u>Content(%)</u> |
|--|----------------|-------------------|
| Benzenesulfonic acid, hydroxyl-, polymer with formaldehyde, phenol and urea, sodium salt | 102980-04-1 | >80 |
| Phenol | 180-95-2 | < 1 |

3.3 Chemical nature : Phenol, Sulfuric acid, Formaldehyde, Urea, Sodium hydroxide of preparation

4. FIRST AID MEASURES

- 4.1 Inhalation : Allow victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately.
- 4.2 Skin Contact : Wash thoroughly with soap and water for at least 10 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.
- 4.3 Eye Contact : Immediately wash out with plenty of water affected eyes with eyelids held open.. Flush longer if there is any indication of residual chemical in the eyes. Consult an ophthalmologist.
- 4.4 Ingestion : Get medical attention immediately. Wash out mouth with water. Allow victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If unconscious, place in recovery position and get medical attention immediately

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media :

- Small fire : Use dry chemical powder.
- Large fire : Use water spray, fog or foam.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance : Fine dust clouds may form explosive mixtures with air.
- Hazardous thermal : Carbon dioxide, Carbon monoxide, Sulfur oxides Decomposition products

5.3 Special protective equipment : Wear appropriate protective equipment and a self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal protection : Avoid contact with skin, eyes and inhalation of dust.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Shut off all ignition sources.
Put on appropriate personal protective equipment.
- 6.2 Environmental protection : Do not let the product enter into drains.
Avoid contact with soil.
- 6.3 Spillages
- Small spills : Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Use spark-proof tools and explosion-proof equipment.
Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
 - Large spills : Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Use spark-proof tools and explosion-proof equipment.
Approach release from upwind.
Avoid creating dusty conditions and prevent wind dispersal.
Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- 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.
-

7. HANDLING AND STORAGE

- 7.1 Handling : Keep away from heat.
Keep away from sources of ignition.
Empty container pose a fire risk, evaporate the residue under a fume hood.
Ground all equipment containing material.
Do not breathe dust.
Avoid contact with eyes and wear suitable protective clothing.
If you feel unwell, seek medical attention and show the label when possible.
- 7.2 Storage : Keep container dry and keep in a cool, well-ventilated place.
Ground all equipment containing material.
Keep container tightly closed.
Store away from extreme heat and strong oxidizing agents.
-

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

- TLV/PEL
TWA : 15 mg/m³ total dust
5 mg/m³ respirable dust (OSHA)
As particles not otherwise regulated (PNOR)
- DNELs/DMELs : No DNELs/DMELs available.
- PNECs : No PNECs available.

8.2 Engineering controls : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.3 Personal protection measures

- Eye/face protection : Safety glasses with side shields, dust goggles or splash goggles.
 - Hand protection : Chemical resistant gloves.
 - Body/skin protection : Lab coat, appropriate footwear.
 - Respiratory protection : Approved/certified respirator or equivalent.
-

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|---|
| Physical State | : Powder |
| Color | : Yellowish to white |
| Odor | : Odourless |
| Odour threshold | : not determined. |
| pH | : 6~8 (2% solution) |
| Boiling Point or Range | : No information found. |
| Melting Point or Range | : >150 °C. |
| Flash Point | : No information found. |
| Vapor Pressure | : No information found. |
| Density | : Study does not need to be conducted. |
| Relative density | : No information found. |
| Specific gravity | : 0.7 |
| Water Solubility | : Soluble in cold and hot water. >100g/l (20°C) |
| Solubility solvent | : Polar solvents |
| Flash point | : No information found. |
| Explosion Limit | : No information found. |
| Ignition Temperature | : > 175 °C |
| Thermal decomposition | : > 270 °C |
| Volatility | : The product is a non-volatile solid. |

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

10. STABILITY AND REACTIVITY

- 10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Thermal decomposition : > 270 °C
- 10.3 Hazardous reaction : Under normal conditions of storage and use, hazardous reaction will not occur.
- 10.4 Conditions to avoid : All possible sources of ignition (spark or flame).
Electrostatic discharges.
Dust accumulation.
- 10.5 Substances to avoid : Alkali or alkaline-earth metal, bases, concentrated acids, oxidizing agents, Friedel-Crafts catalysts
- 10.6 Polymerization : Polymerization will not occur.
-

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute Toxicity
Assessment of acute toxicity:
Of low toxicity after single ingestion.
- Experimental/calculated data:
LD50 rat (oral): 2,000 – 5,000 mg/kg
- 11.2 Irritation
Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant. (OECD Guideline 404)
- Serious eye damage/irritation rabbit: non-irritant. (OECD Guideline 405)
- 11.3 Respiratory/Skin sensitization:
Experimental/calculated data:
Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)
- 11.4 Experiences in humans:
Experimental/calculated data:
May lead to a skin reaction in people already sensitized with formaldehyde.
- 11.5 Other relevant toxicity information:
The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

12. ECOLOGICAL INFORMATION

12.1 Ecology Toxicity:

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1)

Microorganisms/Effect on activated sludge:

EC10 > 5,000 mg/l, activated sludge (DEV-L2, aquatic)

12.2 Persistence and degradability

Assessment biodegradation and elimination (H₂O):

At environmentally relevant purification plant concentrations of <1mg/l the elimination of the product from water is good.

Elimination information:

>90% C-14 labelling (ISO 9439, Annex D (Kombitest)) (activated sludge, industrial) In tests with Reduced concentrations, elimination of the substance from water is good.

12.2 Bioaccumulative potential

Assessment bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

12.3 Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

12.4 Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization 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. Self-classification

13. DISPOSAL CONSIDERATIONS

13.1 Disposal of product : Waste should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

13.2 Disposal of packing : Waste packing should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Material Safety Data Sheet

PRODUCT : DYWELL-DN (25KG)

DATE : 27-Aug-2022

14. TRANSPORT INFORMATION

14.1 DOT Classification : Not regulated.

14.2 TDG Classification : Not regulated.

14.3 ADR/RID Class : Not regulated.

14.4 IMDG Class : Not regulated.

14.5 IATA-DGR Class : Not regulated.

15. REGULATORY INFORMATION

15.1 EU Regulation (EC) No. 1907/2006 (REACH)

- Annex XIV : None of the components are listed.
- Annex XVII : Restricted to professional users.

15.2 EINECS : This product is on the European Inventory of Existing Commercial Chemical Substances.

15.3 National regulations

- Europe inventory : All components are listed or exempted.
 - US inventory (TSCA 8b) : All components are listed or exempted.
 - Canada inventory : All components are listed or exempted.
 - Australia inventory : All components are listed or exempted.
 - China inventory : All components are listed or exempted.
 - Japan inventory : All components are listed or exempted.
 - Korea inventory : All components are listed or exempted.
 - New Zealand inventory : All components are listed or exempted.
 - Philippines inventory : All components are listed or exempted.
-

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither **KG CHEMICAL Co., Ltd.** 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 guarantee that these are the only hazards which exist.