

Safety Data Sheet

Hydra Mil Powder

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

- 1.1. Product identifier** Hydra Mil 2G
- 1.2. Relevant identified uses of the substance or mixture and uses advised against** Circulation cleaning of milk pipelines
- Manufacturer** Lir Analytical
- Address** Unit 2 Century Business Park, Athlone Rd, Longford Town, Longford
- Phone Number1.** (043)6660703.
- E-mail** reception@liranalytical.com
- 1.3.** Details of the supplier of the safety data sheet
- 1.4. Emergency telephone number** 085-7211839(24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: C: R35

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe burn

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe dust

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures Chemical Characterisation: sodium hydroxide and surfactants

| Component | EINECS No: | CAS No: | % Inclusion | Classification | Concentration limits (Annex I 67/548/EEC) |
|------------------|------------|-----------|-------------|----------------|--|
| Sodium Hydroxide | 215-185-5 | 1310-73-2 | <75 C; | R35 C; | R35: C ≥ 5 % C; R34: 2 % ≤ C < 5 % Xi; R36/38: 0,5 % ≤ C < 2 % |

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SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

| | |
|------------|--|
| Eyes | Contact with eyes can cause severe damage. |
| Skin | Material will cause chemical burns. |
| Ingestion | Causes severe damage to mucous membranes or deeper tissues. |
| Inhalation | Concentrated dust may cause damage to the upper respiratory tract. |

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. If in doubt or symptoms persist, seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No data supplied

5.3. Advice for firefighters

Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure that there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations. To cool, spray closed containers with water spray jet. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing, approved respirator, gloves, goggles etc – see section 8. Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorised persons away.

6.2. Environmental precautions

Observe regulations on preventions of water pollution (collect, dam up, cover up) Prevent the material from entering drains or watercourses.

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6.3. Methods and material for containment and cleaning up

Large spillages should be collected for disposal. Collect in suitable containers. Keep away from incompatible substances. Clean contaminated surface thoroughly – recommended cleaning agent – water. Dispose of absorbed material in accordance with the regulations. Never return spilled product into its original containers for re-use.

6.4. Reference to other sections

Protective clothing - section 8. Disposal – Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear suitable protective clothing. Avoid contact with skin, eyes and clothing. Do not inhale vapour, aerosols, and sprays. When using, avoid spray mists. Operate in a well ventilated place. For personal protection see Section 8. Handle in accordance with good industrial hygiene and safety practice. Immediately change moistened or saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Never return spilled product into its original containers for re-use. Avoid impurities. Transport and store container in upright position only. Do not empty container by means of pressure.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from incompatible substances. Keep only in the original container. Keep container closed and in a clean, cool, and well ventilated place away from heat, flammable materials and intense light. Avoid residues of the product on the containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Occupational Exposure Standards | EH40 WEL Short Term | EH40 WEL TWA |
|---------------------------------|-----------------------|-------------------|
| Sodium Hydroxide | 2 mg/m ³ 2 | mg/m ³ |

8.2. Exposure controls

| | |
|------------------------|---|
| Eye / face protection | Chemical goggles or face shield EN166 |
| Hand protection | Chemical resistant gloves. Natural rubber (NR)/ Polychloroprene (PCP). (EN 374). |
| Other | PVC or other impermeable suit (suitable materials – PVC, neoprene, nitrile rubber (NBR), rubber). PVC or rubber boots. |
| Respiratory protection | Ensure there is good room ventilation. Do not inhale dust, vapour, aerosol or mist. If ventilation is insufficient, wear respiratory protection. Respirator with type ABEK-P1 combination filter. (EN141 & EN143 or equivalent) |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------|---------------------------|
| Appearance | Free flowing white powder |
| Odour | No data available |
| Odour threshold | No data available |
| pH | 12.5 – 13.5 |
| Melting /freezing point | No data available |

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| | |
|--|-------------------------|
| Boiling point/boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No flammable components |
| Upper/lower flammability or explosive limits | No explosive components |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility (ies) | Water soluble |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No explosive components |
| Oxidising properties | Not an oxidiser |

9.2. Other information

No Data

SECTION 10: Stability and reactivity

10.1. Reactivity

No data supplied

10.2. Chemical stability

No data supplied

10.3. Possibility of hazardous reactions

No data supplied

10.4. Conditions to avoid

Extremes of temperature. Damp wet conditions.

10.5. Incompatible materials

Acids and ammonia solutions. Zinc or aluminium surfaces.

10.6. Hazardous decomposition products

No data supplied

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Sodium Hydroxide LD50 (Oral, Rat) 325 mg/kg

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Hydroxide LC 50, 96 Hrs, FISH mg/l 33-189 EC 50, 48 Hrs, DAPHNIA, mg/l 40-240

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| | |
|---|---|
| 12.2. Persistence and degradability | Readily biodegradable |
| 12.3. Bioaccumulative potential | Product is not expected to bioaccumulate. |
| 12.4. Mobility in soil | No data supplied |
| 12.5. Results of PBT and vPvB assessment | This product does not contain any PBT or vPvB substances. |
| 12.6. Other adverse effects | No data supplied |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal Dispose of in accordance with all applicable local and national regulations.

Container disposal Contaminated, empty containers must be disposed of as chemical waste. Residual chemical should be disposed of by incineration or by other modes of disposal in compliance with local legislation

SECTION 14: Transport information

| | |
|--|--|
| 14.1. UN number | UN3262 |
| 14.2. UN proper shipping name | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE) |
| 14.3. Transport hazard class(es) | 8 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | not marine pollutant |
| 14.6. Special precautions for user | No special precautions. Tunnel code: E Transport category: 2 |
| 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

SECTION 15: Regulatory information

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

The Chemical (Hazard Information for Packaging and Supply) Regulations 2009 (SI 2009:716) and associated documents.

COMMISSION REGULATION (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the

Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

HSE Guidance Note EH40 2007

The European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2009 Edition.

The International Maritime Dangerous Goods Code, (IMDG) 2010 Edition.

The International Air Transport Association Dangerous Goods Regulations, (IATA), 2012 Edition.

Safety Data Sheets provided by suppliers of component substances.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

Phrases used in s.2 and s.3: H314: Causes severe skin burns and eye damage.
R35: Causes severe burns.

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Legal Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Lir Analytical Ltd. Registered Office: Unit 2 Century Business Park, Athlone Rd, Longford Town, Longford
Registration Number: Ireland 528908 Place of Registration: Ireland.