according to Regulation (EC) No. 1907/2006

Honeywell

Sodium hydroxide solution

30531-2.5L

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

1.1. Product identifier Product name : Sodium hydroxide solution SDS-number : 00000020887 Type of product : Mixture Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006. 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the : Laboratory chemicals Substance/Mixture Uses advised against : none 1.3. Details of the supplier of the safety data sheet Company : Honeywell International Inc. Honeywell International, Inc. 115 Tabor Road 115 Tabor Road 07950-2546 Morris Plains Morris Plains, NJ 07950-2546 USA USA Telephone For further information, SafetyDataSheet@Honeywell.com please contact: 1.4. Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport) Emergency telephone number +1-303-389-1414 (Medical) Country based Poison : see chapter 15.1

SECTION 2: Hazards identification

Control Center

2.1. Classification of the substance or mixture **REGULATION (EC) No 1272/2008**

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Corrosive to metals Category 1 H290 May be corrosive to metals. Skin corrosion Category 1A H314 Causes severe skin burns and eye damage.

2.2. Label elements

REGULATION (EC) No 1272/2008

| Hazard pictograms | : | A BE | |
|--------------------------|---|--------------------|--|
| Signal word | : | Danger | |
| Hazard statements | : | H290 H314 | May be corrosive to metals. Causes severe skin burns and eye damage. |
| Precautionary statements | : | P260 | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. |
| | | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | | P301 + P330 + P331 | |
| | | P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| | | P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | | P305 + P351 + P338 | |
| | | P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |

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

2.3. Other hazards

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Extremely corrosive and destructive to tissue.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Chemical name | CAS-No. Index-No. REACH Registration Number EC-No. | Classification 1272/2008 | Concentration | Remarks |
|------------------|--|---|------------------|---|
| Sodium hydroxide | 1310-73-2 011-002-00-6 215-185-5 | Met. Corr. 1; H290 Skin Corr. 1A; H314 | >= 25 % - < 50 % | Skin Corr. 1A; H314:>= 5 % Skin Corr. 1B; H314:2 - < 5 % Eye Irrit. 2; H319:0,5 - < 2 % Skin Irrit. 2; H315:0,5 - < 2 % |

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Immediately take off contaminated clothing and rinse body with plenty of water.

Inhalation:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician immediately. Page 3 / 16

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Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

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

No data available

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

Treat symptomatically.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2. Special hazards arising from the substance or mixture

The product is not flammable. Contact with metals liberates hydrogen gas. Fire may cause evolution of: Sodium oxides

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5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.The product itself does not burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Use only alkaliproof equipment. When diluting, always stir product into water.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

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7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

| Components | Basis / Value type | Value / Form of exposure | Exceeding Factor | Remarks |
|------------------|-----------------------|-----------------------------|---------------------|---------|
| Sodium hydroxide | EH40 WEL STEL | 2 mg/m3 | | |
| Sodium hydroxide | EH40 WEL | | | Listed |

STEL - Short term exposure limit

DNEL/ PNEC-Values

| Component | End- use/impact | Exposure duration | Value | Exposure routes | Remarks |
|------------------|---|-------------------|---------|-----------------|---------|
| Sodium hydroxide | Workers / Long-term local effects | | 1 mg/m3 | Inhalation | |
| Sodium hydroxide | Consumers / Long-term local effects | | 1 mg/m3 | Inhalation | |

No PNEC data available.

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8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345. Do not breathe vapours or spray mist.

Engineering measures

Local exhaust Use only acid resistant equipment.

Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection:
Glove material: Natural Latex
Break through time: > 480 min
Glove thickness: 0,6 mm
Lapren®706
Gloves must be inspected prior to use.
Replace when worn.
Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection: Safety goggles

Skin and body protection: Wear suitable protective equipment. Wear as appropriate:

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Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : | liquid |
|--|---|---------------------------------------|
| Colour | : | colourless |
| Odour | : | odourless |
| molecular weight | : | 40,0 g/mol |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | ca. 120 °C |
| Upper explosion limit | : | Not applicable |
| Lower explosion limit | : | Not applicable |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | No decomposition if used as directed. |
| рН | : | > 14 |
| Viscosity, kinematic | : | No data available |
| Water solubility | : | soluble |
| Partition coefficient: n- octanol/water | : | No data available |
| Vapour pressure | : | No data available |

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| | |
| | |
| | |
| Density | : 1,350 g/cm3 |
| | |
| Relative vapour density | : No data available |
| 0.2. Other information | |
| 9.2 Other Information | |
| Corrosive to metals | : Corrosive to metals |
| Evaporation rate | : No data available |
| | |
| Viscosity, dynamic | : No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with alkali sensitive materials. With acid and aluminium. Corrosive in contact with metals

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

Zinc Tin Aluminium Gives off hydrogen by reaction with metals. Exothermic reaction with strong acids.

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On dilution or dissolving in water, considerable heating always occurs.

10.6. Hazardous decomposition products

Sodium oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: Toxicity is determined by the corrosivity of the product.

Acute dermal toxicity: Toxicity is determined by the corrosivity of the product.

Acute inhalation toxicity: Toxicity is determined by the corrosivity of the product.

Skin irritation: Classification based on Annex VI of regulation 1272/2008/EC.

Eye irritation: Classification based on Annex VI of regulation 1272/2008/EC.

Respiratory or skin sensitisation: Species: human Result: non-sensitizing Test substance: anhydrous substance

Repeated dose toxicity: Note: No data available

Carcinogenicity: Note: No data available

Germ cell mutagenicity: Note: No data available

Reproductive toxicity: Remarks: No data available

Aspiration hazard:

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No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: No data available

Toxicity to aquatic plants: No data available

Toxicity to aquatic invertebrates: EC50 Species: Ceriodaphnia spec Value: 40,4 mg/l Exposure time: 48 h Test substance: anhydrous substance

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Should not be released into the environment. If it is not neutralised, observe pH value. Neutralisation will reduce ecotoxic effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product: Dispose according to legal requirements.

Packaging: Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information: Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

| 14.1 UN number ADR/RID:1824 | IMDG:1824 | IATA:1824 |
|---|-------------------------|-----------|
| 14.2 UN proper shipping nan ADR/RID:SODIUM HYDROXID IMDG:SODIUM HYDROXIDE IATA:Sodium hydroxide solutio | DE SOLUTION SOLUTION | |
| 14.3 Transport hazard class(ADR/RID: 8 | es) IMDG: 8 | IATA: 8 |
| 14.4 Packaging group ADR/RID: II | IMDG: II | ΙΑΤΑ: ΙΙ |

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14.5 Environmental hazards ADR/RID:no

Marine pollutant: no

14.6 Special precautions for user IMDG Code segregation group (SGG18) – ALKALIS,

14.7 Maritime transport in bulk according to IMO instruments No data available

SECTION 15: Regulatory information

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

| Basis | Value | Remarks |
|--|-------|--|
| Directive 2012/18/EC | | Not applicable |
| Substances of very high concern (SVHC) | | This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |

Poison Control Center

| Country | Phone Number |
|----------------|------------------------------|
| Austria | +4314064343 |
| Belgium | 070 245245 |
| Bulgaria | (+)35929154233 |
| Croatia | (+3851)23-48-342 |
| Cyprus | +357 2240 5611 |
| Czech Republic | +420224919293; +420224915402 |
| Denmark | 82121212 |
| Estonia | 16662; (+372)6269390 |

| Country | Phone Number |
|---------------|-----------------------------|
| Liechtenstein | +41 442515151 |
| Lithuania | +370532362052 |
| Luxembourg | 070245245; (+352)80002-5500 |
| Malta | +356 2395 2000 |
| Netherlands | 030-2748888 |
| Norway | 22591300 |
| Poland | +48 42 25 38 400 |
| Portugal | 800250250 |

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| Finland | 9471977 | |
|---------|------------------------|--|
| France | +33(0)145425959 | |
| Greece | +30 210 779 3777 | |
| Hungary | (+36-80)201-199 | |
| Iceland | 5432222 | |
| Ireland | +353(1)8092166 | |
| Italy | 0382 24444 | |
| | Berlin : 030/19240 | |
| | Bonn : 0228/19240 | |
| | Erfurt : 0361/730730 | |
| Germany | Freiburg : 0761/19240 | |
| Comany | Göttingen : 0551/19240 | |
| | Homburg : 06841/19240 | |
| | Mainz : 06131/19240 | |
| | Munich : 089/19240 | |
| Latvia | +37167042473 | |

| Romania | +40 21 318 3606 | | |
|-----------------|---|--|--|
| Slovakia (NTIC) | +421 2 54 774 166 | | |
| Slovenia | +386 1 400 6051 | | |
| Spain | +34915620420 | | |
| Sweden | 112 (begär Giftinformation);+46104566786 | | |
| Switzerland | 145 | | |
| United Kingdom | (+44) 844 892 0111 | | |

Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory Page 14 / 16

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China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

| Sodium hydroxide | : | H290 | May be corrosive to metals. |
|------------------|---|------|--|
| | | H314 | Causes severe skin burns and eye damage. |

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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