

Sodium Hydroxide, 30% w/v Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/16/2013 Version: 1.0

| SECTION 1: Identification of the  | substance/mixture and of the comp  | anv/undertaking  |   |
|---|--|--|---|
| 1.1. Product identifier   | substance/mixture and or the comp  | anyranaertaking  |   |
| Product form  | : Mixture  |  |   |
| Product name  | : Sodium Hydroxide, 30% w/v  |  |   |
| Product code  | : LC24110  |  |   |
| 1.2. Relevant identified uses of the  | substance or mixture and uses advised agai   | inst   |   |
| Use of the substance/mixture  | : For laboratory and manufacturing use   | only.  |   |
| 1.3. Details of the supplier of the sa  | fety data sheet  |  |   |
| LabChem Inc<br>Jackson's Pointe Commerce Park Building 7<br>Zelienople, PA 16063 - USA<br>T 412-826-5230 - F 724-473-0647<br>info@labchem.com - www.labchem.com | 1000, 1010 Jackson's Pointe Court  |  |   |
| 1.4. Emergency telephone number   |  |  |   |
| Emergency number  | : CHEMTREC: 1-800-424-9300 or 011-   | 703-527-3887   |   |
| SECTION 2: Hazards identification   | on   |  |   |
| 2.1. Classification of the substance  |  |  |   |
| GHS-US classification<br>Skin Corr. 1B H314<br>Eye Dam. 1 H318  |  |  |   |
| 2.2. Label elements   |  |  |   |
| GHS-US labelling  |  |  |   |
| Signal word (GHS-US)<br>Hazard statements (GHS-US)<br>Precautionary statements (GHS-US)   | GHS05<br>GHS05<br>Danger<br>H314 - Causes severe skin burns and<br>P260 - Do not breathe mist, spray, vap<br>P264 - Wash exposed skin thoroughly<br>P280 - Wear eye protection, face prote<br>P301+P330+P331 - IF SWALLOWED:<br>P303+P361+P353 - IF ON SKIN (or ha<br>clothing. Rinse skin with water/shower<br>P304+P340 - IF INHALED: remove vic<br>for breathing<br>P305+P351+P338 - If in eyes: Rinse of<br>lenses, if present and easy to do. Com<br>P310 - Immediately call a POISON CE<br>P363 - Wash contaminated clothing be<br>P405 - Store locked up<br>P501 - Dispose of contents/container to | oours<br>after handling<br>ection, protective clothi<br>: rinse mouth. Do NOT<br>air): Remove/Take off i<br>ctim to fresh air and ke<br>cautiously with water fo<br>tinue rinsing<br>:NTER or doctor/physic<br>efore reuse | induce vomiting<br>immediately all contaminated<br>ep at rest in a position comfortable<br>or several minutes. Remove contact<br>cian |
| 2.3. Other hazards  |  |  |   |
| Other hazards not contributing to the classification  | : None.  |  |   |
| 2.4. Unknown acute toxicity (GHS-U  | IS)  |  |   |
| No data available   |  |  |   |
| SECTION 3: Composition/inform   | ation on ingredients   |  |   |
| 3.1. Substance  |  |  |   |
| Not applicable  |  |  |   |
| Full text of H-phrases: see section 16  |  |  |   |
| 3.2. Mixture  |  |  |   |
| Name  | Product identifier   | %  | GHS-US classification   |
| Water   | (CAS No) 7732-18-5   | 76.21  | Not classified  |

| Name             | Product identifier | %     | GHS-US classification   |
|------------------|--------------------|-------|---|
| Sodium Hydroxide | (CAS №) 1310-73-2  | 23.79 | Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402 |

| SECTION 4: First aid measures   |   |  |  |
|---|---|--|--|
| 4.1. Description of first aid measure   | s   |  |  |
| First-aid measures general  | <ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice<br/>(show the label where possible).</li> </ul>   |  |  |
| First-aid measures after inhalation   | : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.   |  |  |
| First-aid measures after skin contact   | : Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all<br>contaminated clothing. Rinse skin with water/shower.   |  |  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  |  |  |
| First-aid measures after ingestion  | : Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Rinse<br>mouth.   |  |  |
| 4.2. Most important symptoms and  | effects, both acute and delayed   |  |  |
| Symptoms/injuries   | : Causes severe skin burns and eye damage.  |  |  |
| Symptoms/injuries after inhalation  | : Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.  |  |  |
| Symptoms/injuries after skin contact  | : Caustic burns/corrosion of the skin.  |  |  |
| Symptoms/injuries after eye contact   | : Causes serious eye damage.  |  |  |
| Symptoms/injuries after ingestion   | : Abdominal pain. Bleeding of the gastrointestinal tract. Burns to the gastric/intestinal mucosa. Nausea. Possible esophageal perforation.  |  |  |
| Symptoms/injuries upon intravenous administration                               | : Not available.  |  |  |
| Chronic symptoms  | : Not available.  |  |  |
| 4.3. Indication of any immediate medical attention and special treatment needed |   |  |  |
| Obtain medical assistance.  |   |  |  |
| SECTION 5: Firefighting measure   | es  |  |  |
| 5.1. Extinguishing media  |   |  |  |
| Suitable extinguishing media  | : Carbon dioxide. Dry powder. Water spray. Foam. Sand.  |  |  |
| Unsuitable extinguishing media  | : Not available. Do not use a heavy water stream.   |  |  |
| 5.2. Special hazards arising from the substance or mixture                      |   |  |  |
| Fire hazard   | : Not flammable.  |  |  |
| Explosion hazard  | : Not available.  |  |  |
| Reactivity  | : Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates : Corrosive vapours.   |  |  |
| 5.3. Advice for firefighters  |   |  |  |
| Firefighting instructions   | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. In case of fire: stop leak if safe to do so. When cooling/extinguishing: no water in the substance. Avoid (reject) fire-fighting water to enter environment. |  |  |
| Protection during firefighting  | : Do not enter fire area without proper protective equipment, including respiratory protection.   |  |  |
| Other information   | : Not available.  |  |  |
| SECTION 6: Accidental release n   | neasures  |  |  |
| 6.1. Personal precautions, protectiv  | e equipment and emergency procedures  |  |  |
| General measures  | : Eliminate ignition sources. Ensure adequate ventilation. Wear self-contained breathing apparate when entering area unless atmosphere is proved to be safe.  |  |  |
| 6.1.1. For non-emergency personnel  |   |  |  |
|   |   |  |  |

| Protective equipment            | : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin<br>contact. |
|---------------------------------|--|
| Emergency procedures            | : Wash contaminated clothes. Evacuate unnecessary personnel. Keep containers closed.                     |
| 6.1.2. For emergency responders |  |
| Protective equipment            | : Equip cleanup crew with proper protection.   |
| Emergency procedures            | : Stop leak if safe to do so. Ventilate area.  |
| 6.2. Environmental precautions  |  |

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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|--|--|--|
| 6.3. Methods and material for containm   | ient and cleaning up   |  |
| For containment  | : Take up liquid spill into inert absorbent material.  |  |
| Methods for cleaning up  | : Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.   |  |
| 6.4. Reference to other sections   |  |  |
| See Heading 8. Exposure controls and persona   | Il protection.   |  |
| SECTION 7: Handling and storage  |  |  |
| 7.1. Precautions for safe handling   |  |  |
| Additional hazards when processed  | : May be corrosive to metals.  |  |
| Precautions for safe handling  | : Do not get in eyes, on skin, or on clothing. Remove contaminated clothing immediately. Use corrosionproof equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe mist, vapours, spray. |  |
| Hygiene measures   | : Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.  |  |
| 7.2. Conditions for safe storage, includ   | ing any incompatibilities  |  |
| Technical measures   | : Comply with applicable regulations.  |  |
| Storage conditions   | : Keep container closed when not in use. Store in original container. Keep only in the original<br>container in a cool, well ventilated place away from : incompatible materials.  |  |
| Incompatible products  | : Strong acids. metals.  |  |
| Incompatible materials   | : Sources of ignition. Direct sunlight.  |  |
| Storage temperature  | : 5 - 30 °C  |  |
| Prohibitions on mixed storage  | : KEEP SUBSTANCE AWAY FROM: (strong) acids. metals. metal powders.   |  |
| Storage area   | : Keep locked up. Store in a well-ventilated place. Keep only in the original container.   |  |
| Special rules on packaging   | : SPECIAL REQUIREMENTS: corrosion-proof.   |  |
| Packaging materials  | : Do not store in corrodable metal.  |  |
| 7.3. Specific end use(s)   |  |  |

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

| Sodium Hydroxide (1310-73-2) |                                    |         |
|------------------------------|------------------------------------|---------|
| USA ACGIH                    | ACGIH Ceiling (mg/m <sup>3</sup> ) | 2 mg/m³ |
| USA OSHA                     | OSHA PEL (TWA) (mg/m³)             | 2 mg/m³ |

#### 8.2. **Exposure controls** Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

: Gloves. Safety glasses. Protective clothing. Head/neck protection. Avoid all unnecessary exposure.



| Eye protection<br>Skin and body protection  | <ul><li>Chemical goggles or face shield.</li><li>Wear suitable protective clothing.</li></ul> |  |
|---|---|--|
| Respiratory protection                      | : In case of inadequate ventilation wear respiratory protection. Wear appropriate mask.       |  |
| Thermal hazard protection                   | : None necessary.   |  |
| Other information                           | : Do not eat, drink or smoke during use.  |  |
| Other information                           | : Do not eat, drink or smoke during use.  |  |
| SECTION 9: Physical and chemical properties |   |  |

|          | <b>,</b>       |                         |                 |
|----------|----------------|-------------------------|-----------------|
| 9.1.     | Information on | basic physical and cher | nical propert   |
| Physical | l state        | :                       | Liquid          |
| Appeara  | ance           | :                       | Clear, colorle  |
| Colour   |                | :                       | clear. colorles |
| Odour    |                | ;                       | odorless.       |
| Odour th | hreshold       | :                       | No data ava     |
|          |                |                         |                 |

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| рН   | : ≥14               |
|--|---------------------|
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Self ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Density                                    | : 1.26 g/ml         |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Log Kow                                    | : No data available |
| Viscosity, kinematic                       | : 5.6 cSt           |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : Not applicable.   |
| Oxidising properties                       | : None.             |
| Explosive limits                           | : No data available |
|  |                     |

#### 9.2. Other information

#### No additional information available

SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen). Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

#### Not established.

10.4. Conditions to avoid

Incompatible materials. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

metals. Strong acids.

#### 10.6. Hazardous decomposition products

Sodium oxide. Thermal decomposition generates : Corrosive vapours.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

| Acute toxicity                    | : Not classified   |
|-----------------------------------|--|
| Sodium Hydroxide, 30% w/v         |  |
| LD50 dermal rabbit                | 5675 mg/kg   |
| Water (7732-18-5)                 |  |
| LD50 oral rat                     | ≥ 90000 mg/kg  |
| Sodium Hydroxide (1310-73-2)      |  |
| LD50 dermal rabbit                | 1350 mg/kg (Rabbit; Literature, Rabbit; Literature)              |
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.                       |
|                                   | pH: ≥ 14   |
| Serious eye damage/irritation     | : Causes serious eye damage.                                     |
|                                   | pH: ≥ 14   |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
|                                   | Based on available data, the classification criteria are not met |

| Carcinogenicity                                     | : | Not classified   |
|---|---|--|
| Reproductive toxicity                               | : | Not classified   |
|   |   | Based on available data, the classification criteria are not met   |
| Specific target organ toxicity (single exposure)    | : | Not classified   |
|   |   |  |
| Specific target organ toxicity (repeated            | : | Not classified   |
| exposure)   |   | Based on available data, the classification criteria are not met   |
| Aspiration hazard                                   | : | Not classified   |
|   |   | Based on available data, the classification criteria are not met   |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met.  |
| Symptoms/injuries after inhalation                  | : | Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.   |
| Symptoms/injuries after skin contact                | : | Caustic burns/corrosion of the skin.   |
| Symptoms/injuries after eye contact                 | : | Causes serious eye damage.   |
| Symptoms/injuries after ingestion                   | : | Abdominal pain. Bleeding of the gastrointestinal tract. Burns to the gastric/intestinal mucosa. Nausea. Possible esophageal perforation. |
| Symptoms/injuries upon intravenous administration   | : | Not available.   |
| Chronic symptoms                                    | : | Not available.   |
|   |   |  |

| SECTION 12: Ecological information  |   |  |  |  |
|-------------------------------------|---|--|--|--|
| 12.1. Toxicity                      |   |  |  |  |
| Ecology - general                   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |  |  |  |
| Ecology - water                     | : Toxic to aquatic life.  |  |  |  |
| Sodium Hydroxide, 30% w/v           |   |  |  |  |
| LC50 fishes 1                       | 191 mg/l  |  |  |  |
| EC50 Daphnia 1                      | 170 mg/l  |  |  |  |
| Sodium Hydroxide (1310-73-2)        |   |  |  |  |
| LC50 fishes 1                       | 45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); SOLUTION >=50%)   |  |  |  |
| EC50 Daphnia 1                      | 40.4 mg/l (48 h; Ceriodaphnia sp.; NOMINAL CONCENTRATION)   |  |  |  |
| LC50 fish 2                         | 189 mg/l (48 h; Leuciscus idus)   |  |  |  |
| TLM fish 1                          | 99 mg/l (48 h; Lepomis macrochirus)   |  |  |  |
| TLM fish 2                          | 125 ppm (96 h; Gambusia affinis)  |  |  |  |
| 12.2. Persistence and degradability |   |  |  |  |
| Sodium Hydroxide, 30% w/v           |   |  |  |  |
| Persistence and degradability       | No data available.  |  |  |  |
| Sodium Hydroxide (1310-73-2)        |   |  |  |  |
| Persistence and degradability       | Biodegradability: not applicable. No (test)data on mobility of the substance available.                                 |  |  |  |
| Biochemical oxygen demand (BOD)     | Not applicable  |  |  |  |
| Chemical oxygen demand (COD)        | Not applicable  |  |  |  |
| ThOD                                | Not applicable  |  |  |  |
| BOD (% of ThOD)                     | Not applicable  |  |  |  |
| 12.3. Bioaccumulative potential     |   |  |  |  |
| Sodium Hydroxide, 30% w/v           |   |  |  |  |
| Bioaccumulative potential           | Not established.  |  |  |  |
| Sodium Hydroxide (1310-73-2)        |   |  |  |  |
| Bioaccumulative potential           | Bioaccumulation: not applicable.  |  |  |  |
| 12.4. Mobility in soil              |   |  |  |  |
| No additional information available |   |  |  |  |
| 12.5. Other adverse effects         |   |  |  |  |
| Other adverse effects               | : May cause pH changes in aqueous ecological systems.   |  |  |  |
|                                     | : Avoid release to the environment.   |  |  |  |

| according to Federal Register / Vol. 77, No. 58 / Monday,        | March 26, 2012 / Rules and Regulations  |
|--|---|
| <b>SECTION 13: Disposal consideration</b>                        | S   |
| 13.1. Waste treatment methods                                    |   |
| Waste disposal recommendations                                   | : Dispose of contents/container to comply with local, state and federal regulations. Dispose in a safe manner in accordance with local/national regulations.  |
| Ecology - waste materials  | : Avoid release to the environment.   |
| <b>SECTION 14: Transport information</b>                         |   |
| In accordance with DOT   |   |
| 14.1. UN number  |   |
| UN-No.(DOT)  | : 1824  |
| DOT NA no.   | UN1824  |
| 14.2. UN proper shipping name                                    |   |
| DOT Proper Shipping Name   | : Sodium hydroxide solution   |
| Department of Transportation (DOT) Hazard<br>Classes             | : 8 - Class 8 - Corrosive material 49 CFR 173.136   |
| Hazard labels (DOT)  | : 8 - Corrosive substances  |
| Packing group (DOT)  | : II - Medium Danger  |
| DOT Special Provisions (49 CFR 172.102)                          | <ul> <li>B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul> |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 154   |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 202   |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242   |
| Marine pollutant   | : No  |
| 14.3. Additional information                                     |   |
| Other information  | : No supplementary information available.   |
| State during transport (ADR-RID)                                 | : as liquid.  |
| Overland transport<br>No additional information available        |   |
| Transport by sea   |   |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.   |
| DOT Vessel Stowage Other   | : 52 - Stow "separated from" acids  |
| Air transport  |   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 1L  |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 30 L  |
| SECTION 15: Regulatory information                               |   |

| SECTION 15: Regulatory information  |                                 |  |  |
|-------------------------------------|---------------------------------|--|--|
| 15.1. US Federal regulations        |                                 |  |  |
| Sodium Hydroxide, 30% w/v           |                                 |  |  |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |  |  |

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| Sodium Hydroxide (1310-73-2)  |                                 |  |
|---|---------------------------------|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                 |  |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) :            | 1000 lb                         |  |
| SARA Section 311/312 Hazard Classes                                       | Immediate (acute) health hazard |  |

#### 15.2. International regulations

#### CANADA

| Sodium Hydroxide, 30% w/v                                       |                              |  |
|---|------------------------------|--|
| WHMIS Classification Class E - Corrosive Material               |                              |  |
| Sodium Hydroxide (1310-73-2)                                    |                              |  |
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |                              |  |
| WHMIS Classification  | Class E - Corrosive Material |  |

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

| Sodium Hydroxide (1310-73-2)                      |  |  |
|---|--|--|
| Listed on the Canadian Ingredient Disclosure List |  |  |
|   |  |  |
| 15.3. US State regulations                        |  |  |
|   |  |  |
| Sodium Hydroxide (1310-73-2)                      |  |  |

| <b>SECTION 16: Other inform</b>                | ation  |  |  |
|--|--|--|--|
| Indication of changes                          | : Revision - See : *.                                |  |  |
| Other information                              | : None.  |  |  |
| Full text of H-phrases: see section 1          | 6:   |  |  |
| Acute Tox. 4 (Dermal)                          |  | Acute toxicity (dermal), Category 4                            |  |
| Aquatic Acute 3                                |  | Hazardous to the aquatic environment — AcuteHazard, Category 3 |  |
| Eye Dam. 1                                     |  | Serious eye damage/eye irritation, Category 1                  |  |
| Skin Corr. 1A                                  | Skin Corr. 1A Skin corrosion/irritation, Category 1A |  |  |
| Skin Corr. 1B Skin corrosion/irritation, Categ |  | Skin corrosion/irritation, Category 1B                         |  |
| H312   |  | Harmful in contact with skin                                   |  |
| H314   |  | Causes severe skin burns and eye damage                        |  |
| H318   |  | Causes serious eye damage                                      |  |

| 10/10/00 10        |   |
|--------------------|---|
| Health             | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given   |
| HMIS III Rating    |   |
| NFPA reactivity    | : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently. |
|                    |   |
| NFPA fire hazard   | given.<br>: 0 - Materials that will not burn.   |
| NFPA health hazard | : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was  |

Harmful to aquatic life

H402

| Flammability        | : 0 Minimal Hazard |
|---------------------|--------------------|
| Physical            | : 1 Slight Hazard  |
| Personal Protection | : D                |

SDS US (GHS HazCom 2012)

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