

# HYUNDAI MATERIAL SAFETY DATA SHEETS REFERENCE

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| Item  | Part Name                      | Part Number             | Manufacturer                 | Reference Number     |                              |
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| <b>AIRBAGS</b>                                  | Steering Wheel Airbag          | 56900-34010-AQ/FG       | Bendix Atlantic Inflator Co. | <a href="#">AB01</a> |                              |
|   | Airbag Assy Passenger          | 84530-34500-AQ/FG       |                              |                      |                              |
|   | Steering Wheel Airbag          | 56900-28000-AQ/EH/FD    | Morton Intern'l              | <a href="#">AB02</a> |                              |
|   | Airbag Inflator                | 56900-22000             | Sungwoo Corp                 | <a href="#">AB03</a> |                              |
|   | Airbag Gas Generator           | 56900-34500-AQ/FG       |                              |                      |                              |
|   |                                | 56900-34010-AQ/FG       |                              |                      |                              |
|   | Steering Wheel Airbag          | 56900-28000-AQ          | Atlantic Research Corp.      | <a href="#">AB04</a> |                              |
|   |                                | 84560-22200-LG/FK       |                              |                      |                              |
|   | Airbag Passenger Inflator Assy | 84530-34550-AQ/FG       |                              |                      |                              |
|   |                                | 84560-22201-LG/FK       |                              |                      |                              |
|   |                                | 84560-22300-LG/FK       |                              |                      |                              |
|   |                                | 84530-34551-AQ/FG       |                              |                      |                              |
|   |                                | 84530-34571-AQ/FG       |                              |                      |                              |
|   |                                | 84560-2B500-WK          |                              |                      |                              |
|   |                                | 85010-3L000             |                              |                      |                              |
|   | Steering Wheel Airbag          | 84530-2C600             |                              |                      |                              |
|   |                                | 56900-29000             | Temic                        | <a href="#">AB07</a> |                              |
|   | 84530-29500-LG/FK              |                         |                              |                      |                              |
|   | Back Assy Front Seat           | 88300-38650-GAY         | Bendix                       | <a href="#">AB08</a> |                              |
|   | Airbag Inflator Generant       | 56900-25000-LT          | Morton Intern'l              | <a href="#">AB09</a> |                              |
|   |                                | 56900-25000-ZE          |                              |                      |                              |
|   | Airbag Hybrid Inflator         | 84560-25000-LT          | Autoflator                   | <a href="#">AB10</a> |                              |
|   |                                | 84560-25000-ZE          |                              |                      |                              |
|   |                                | 84560-25500-ze          |                              |                      |                              |
|   | Airbag Inflator                | 56900-26001-FB          | Autoliv                      | <a href="#">AB11</a> |                              |
|   |                                | 56900-26001-GK          |                              |                      |                              |
|   | Airbag Passenger               | 84560-26000             |                              |                      |                              |
|   |                                | 56900-26002-FB          |                              |                      |                              |
|   | Steering Wheel Airbag          | 56900-26002-GK          |                              |                      |                              |
|   |                                | 84560-22400-FK/LG       |                              |                      | Bendix Atlantic Inflator Co. |
| Airbag Inflator                                 | 84560-22202-LG                 |                         |                              |                      |                              |
|   | 84560-22401-FK/LG              |                         |                              |                      |                              |
|   | 84530-38500                    |                         |                              |                      |                              |
|   | 84530-38000                    |                         |                              |                      |                              |
|   | 84530-38000-LT/TI              |                         |                              |                      |                              |
| Steering Wheel Module Assy (MPN-352)            | 84560-38500-LK/TI              | Autoliv                 | <a href="#">AB13</a>         |                      |                              |
|   | 56900-22001                    |                         |                              |                      |                              |
|   | 56900-29750                    |                         |                              |                      |                              |
|   | 56900-2D000                    |                         |                              |                      |                              |
|   | 56900-3J500-WK/7Q/9V           |                         |                              |                      |                              |
| Steering Wheel Airbag                           | 56900-2C501-LK                 | TRW                     | <a href="#">AB14</a>         |                      |                              |
|   | 56900-39850-LK/ZK              |                         |                              |                      |                              |
|   | 56900-2C501-LK                 |                         |                              |                      |                              |
| Steering Wheel Airbag                           | 56900-2E100-U7/WK/Z9           | Atlantic Research Corp. | <a href="#">AB14-A</a>       |                      |                              |
|   | 84530-29510-FK/LG              |                         |                              |                      |                              |
|   | 84560-22400-FK/LG              |                         |                              |                      |                              |
| Airbag Passenger                                | 84560-22400-FK/LG              | Temic                   | <a href="#">AB15</a>         |                      |                              |
| Inflator Assy                                   | 56900-3D000-LK/TI              | Breed                   | <a href="#">AB16</a>         |                      |                              |
|   | 56900-38000-LT/TI              |                         |                              |                      |                              |
| Steering Wheel Module Assy (MPN-152, MPN-152AO) | 56900-2D000-CA                 | Autoliv                 | <a href="#">AB17</a>         |                      |                              |
|   | 56900-2D000-OH                 |                         |                              |                      |                              |

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| <b>AIRBAGS</b>             | Airbag Passenger                             | 84530-2C500             | Atlantic Research Corp. | <a href="#">AB18</a> |
|                            |  | 84530-2C000             |                         |                      |
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|                            |  | 84530-2D000-OH/ZE       |                         |                      |
|                            |  | 56900-2H100-7U/9P       |                         |                      |
|                            |  | 56900-3K510-FZ/QZ       |                         |                      |
|                            |  | 84530-2E510-U7/WK/Z9    |                         |                      |
|                            |  | 84560-1E500-AR/FZ/WK    |                         |                      |
|                            | Steering Wheel Module Assy (ADI,EG,FG,GG,RG) | 56900-29110             | TRW                     | <a href="#">AB19</a> |
|                            |  | Airbag Passenger        | 84530-29550-FK/LT       | TRW                  |
|                            | 84530-27550                                  |                         |                         |                      |
|                            | 84530-29050-LT                               |                         |                         |                      |
|                            | Curtain Airbag                               | 85010-2E000             | TRW                     | <a href="#">AB21</a> |
|                            |  | 85020-2E000             |                         |                      |
|                            | Steering Wheel Module Assy                   | 56900-3K500-FZ/QZ       | Atlantic Research Corp. | <a href="#">AB22</a> |
|                            |  | 84530-3K500             |                         |                      |
|                            |  | 56900-2E500-DD/LM/U7    |                         |                      |
|                            |  | 56900-2E500-WK/Z9       |                         |                      |
|                            |  | 56900-3K500-CH          |                         |                      |
|                            | Curtain Airbag                               | 56900-3L400-RD          | Autoliv                 | <a href="#">AB23</a> |
|                            |  | 85010-0A000             |                         |                      |
|                            |  | 85020-0A000             |                         |                      |
|                            |  | 85020-4D100             |                         |                      |
|                            |  | 85010-4D000             |                         |                      |
|                            | Steering Wheel Module Assy                   | 85020-4D000             | Key Safety              | <a href="#">AB24</a> |
| 56900-1E100-AR/FZ/WK       |  |                         |                         |                      |
| 56900-26600                |  |                         |                         |                      |
| 84530-2L500                |  |                         |                         |                      |
| Airbag Passenger           | 56900-1E101-AR/FZ/WK                         | Key Safety              | <a href="#">AB25</a>    |                      |
|                            | 84560-26550                                  |                         |                         |                      |
| Steering Wheel Module Assy | 84560-26500                                  | Key Safety              | <a href="#">AB25</a>    |                      |
|                            | 56900-25500-LT/ZE                            |                         |                         |                      |
| Curtain Airbag             | 56900-25500-LT/ZE                            | Key Safety              | <a href="#">AB26</a>    |                      |
|                            | 85010-1E300                                  |                         |                         |                      |
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|                            | 84530-3K600                                  |                         |                         |                      |
|                            | 85010-2L500                                  |                         |                         |                      |
| 85020-2L500                |  |                         |                         |                      |
| Steering Wheel Module Assy | 85010-0W000                                  | Key Safety              | <a href="#">AB27</a>    |                      |
|                            | 56900-2D600-SO/TK                            |                         |                         |                      |
| Steering Wheel Module Assy | 56900-4J700-VA                               | Atlantic Research Corp. | <a href="#">AB28</a>    |                      |
|                            | 56900-3L400-A9/B9/WK                         |                         |                         |                      |
|                            | 56900-2E500-DD/LM/U7                         |                         |                         |                      |
|                            | 56900-2E500-WK/Z9                            |                         |                         |                      |
| Airbag Passenger           | 84530-4D500                                  | TRW                     | <a href="#">AB29</a>    |                      |
| Steering Wheel Module Assy | 56900-3L200-A9/B9/WK                         |                         |                         |                      |

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| <b>AIRBAGS</b>  | Airbag Passenger           | 84530-3L500   | TRW                  | <a href="#">AB30</a> |
|                 | Steering Wheel Module Assy | 56900-39300-LK/ZK   | Autoliv              | <a href="#">AB32</a> |
|                 | Steering Wheel Module Assy | 56900-39500-LK/ZK   |                      |                      |
|                 | Airbag Passenger           | 84560-25200   | ARC                  | <a href="#">AB33</a> |
|                 |                            | 84560-25200-LT  |                      |                      |
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|                 | Curtain Airbag             | 85010-3M000   | ARC                  | <a href="#">AB33</a> |
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|                 |                            | 84560-1E600-FZ  |                      |                      |
|                 |                            | 84560-1E600-WK  |                      |                      |
|                 | Steering Wheel Module Assy | 56900-34010-AQ/FG<br>56900-28000-AQ/EH/FD<br>56900-22000<br>56900-34500-AQ/FG | Autoliv              | <a href="#">AB34</a> |
|                 | Steering Wheel Module Assy | 56900-2C850-LK  | Autoliv              | <a href="#">AB35</a> |
|                 |                            | 84560-3J500   |                      |                      |
|                 |                            | 84530-29050-FK  |                      |                      |
|                 | Curtain Airbag             | 85010-3J000   | Autoliv              | <a href="#">AB36</a> |
|                 |                            | 85010-4D100   |                      |                      |
|                 |                            | 85010-3J000   |                      |                      |
|                 | Airbag Passenger           | 84530-38500   | ARC                  | <a href="#">AB37</a> |
|                 | Airbag Passenger           | 84530-4D500   | TRW                  | <a href="#">AB38</a> |
|                 | Steering Wheel Module Assy | 56900-0W500-WK  | Autoliv              | <a href="#">AB39</a> |
|                 | Seatback                   | 88300-0Axxx-xxx   | TAKATA               | <a href="#">AB40</a> |
|                 |                            | 88300-0Wxxx-xxx   |                      |                      |
| 88400-0Axxx-xxx |                            |   |                      |                      |
| 88400-0Wxxx-xxx |                            |   |                      |                      |
| 84560-0W500-WK  |                            |   |                      |                      |
| 88300-1Exxx-xxx |                            | Key Safety  | <a href="#">AB41</a> |                      |
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| 88300-2Hxxx-xxx |                            |   |                      |                      |
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|                      |                 | 88300-2E4xx-xxx |                      |                      |
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|                      |                 | 88400-2E5xx-xxx |                      |                      |
|                      |                 | 88400-2E3xx-xxx |                      |                      |
|                      |                 | 88300-3J040-xxx | Autoliv              | <a href="#">AB43</a> |
|                      |                 | 88300-3J4xx-xxx |                      |                      |
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|                      | 88400-4D4xx-xxx |                 |                      |                      |
|                      | 88400-4J3xx-xxx |                 |                      |                      |
|                      | Airbag          | 56900-2M500-9P  | ARC                  | <a href="#">AB44</a> |
|                      |                 | 84530-2M500     |                      |                      |
| 56900-25500-ZE       |                 | Key Safety      | <a href="#">AB45</a> |                      |
| 84530-4D502          |                 |                 |                      |                      |
| 84560-1E601-AR/FZ/WK |                 | ARC             | <a href="#">AB46</a> |                      |

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|                    | Battery Assy                   | 37110-21320          | Kyungwon Battery Co.    |                      |
|                    | Battery Assy (60AHB)           | 37110-21400          | Kyungwon Battery Co.    |                      |
|                    | Battery (All Model)            | 00998-00010          | Delco Remy Div, GMC     | <a href="#">BA03</a> |
|                    | Battery (Solite)               | 37110-29100          | Kyungwon Battery Co.    | <a href="#">BA04</a> |
|                    |                                | 37110-27200          |                         |                      |
|                    | Battery 6 Cylinder             | 00999-B8105          | Enermex (Acumex)        | <a href="#">BA05</a> |
|                    | Battery Wet 500 CCA            | 00999-00010          |                         |                      |
|                    | Battery Wet 540 CCA            | 00999-00020          |                         |                      |
|                    | Battery Wet 550 CCA            | 00999-17100          |                         |                      |
|                    | Battery Security System Remote | 00243-16150          | Duracell Inc.           | <a href="#">BA06</a> |
|                    | Battery Solite 60AH            | 37110-34702          | Hyundai Enercell Co.    | <a href="#">BA07</a> |
|                    | Battery Cable Assy             | 37200-XXXXX          | Taesung-Electro Circuit | <a href="#">BA08</a> |
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| 37620-XXXXX        |                                |                      |                         |                      |
| MS830-009          |                                |                      |                         |                      |
| Battery Cable Assy | 37110-22400                    | Hyundai Enercell Co. | <a href="#">BA09</a>    |                      |
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|                  | 95430-3K200      |                     |                      |                       |                      |
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|                  | 95430-2E210      |                     |                      |                       |                      |
|                  | 95430-4J000      | DongA Manufacturing | <a href="#">BA12</a> |                       |                      |
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|                  | DVD Remote       |                     | 96567-4D000          | Maxell                | <a href="#">BA14</a> |
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|                             |                                   | 00947-21030 |                      |                        |
|                             |                                   | 58103-21320 |                      |                        |
|                             | Drum Brake Asbestos               |             | Allied Signal Inc    | <a href="#">BR01-A</a> |
|                             | Disc Pad Asbestos                 |             |                      |                        |
|                             | Low Met. Disc Pad                 |             |                      |                        |
|                             | Asbestos Free                     |             |                      |                        |
|                             | Semi Met. Disc Pad                |             |                      |                        |
|                             | Titanium Dioxide<br>Asbestos Free |             |                      |                        |
|                             | Drum Brake<br>Asbestos Free       |             | Tokico               | <a href="#">BR03</a>   |
|                             | Pad Kit                           | 58101-32300 |                      |                        |
|                             | Pad Assy                          | 58101-32310 |                      |                        |
|                             | Shoe & Lining Kit                 | 58305-21300 | MMC (Akebono)        | <a href="#">BR04</a>   |
|                             | Shoe Lining & Pin                 | 58315-21300 | MMC (Akebono)        | <a href="#">BR05</a>   |
|                             | Shoe Lining Assy                  | 58325-21300 | MMC (Akebono)        | <a href="#">BR06</a>   |
|                             | Shoe Lining & Pin                 | 58326-21300 | MMC (Akebono)        | <a href="#">BR07</a>   |
|                             | Disc Assy Brake                   | 45421-21700 | Daikin-R/M Co. Ltd   | <a href="#">BR08</a>   |
|                             | Disc Brake Hose                   |             | Goodyear Tire Co.    | <a href="#">BR09</a>   |
|                             | Disc Front Brake                  | 51712-39900 | Korea Flange Co. LTd | <a href="#">BR10</a>   |
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|                  | Chlorinated Brake Cleaner                  | 00232-12120        |                          | <a href="#">CH02</a> |
|                  | Carburetor Cleaner                         | 00232-12130        |                          | <a href="#">CH03</a> |
|                  | Engine Degreaser                           | 00232-12190        |                          | <a href="#">CH04</a> |
|                  | Glass Cleaner                              | 00232-12160        |                          | <a href="#">CH05</a> |
|                  | Rust Penetrate                             | 00232-12150        |                          | <a href="#">CH06</a> |
|                  | Silicone Spray                             | 00232-12140        |                          | <a href="#">CH07</a> |
|                  | White Grease                               | 00232-12170        |                          | <a href="#">CH08</a> |
|                  | Superflex Ultra Blue Silicone              | 00231-19800        | Loctite Corp.            | <a href="#">CH09</a> |
|                  | Armor All Liquid Wax                       | 00212-10100        | Armor All Product        | <a href="#">CH10</a> |
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|                  | Coatings, Resins & Related Materials       | 00226-Y2100        | BASF Corp                | <a href="#">CH14</a> |
|                  | Permatex RTV Ultra Blue no leak            | 00231-19800        | Loctite Corp.            | <a href="#">CH15</a> |
|                  | AC Evaporator Deodorizer part 1            | 00232-12100        | Petro Chemical Prod      | <a href="#">CH16</a> |
|                  | AC Evaporator Flush part 2                 | 00232-12100        | Petro Chemical Prod      | <a href="#">CH17</a> |
|                  | Non-Chlorinated Brake Cleaner              | 00232-12120        | Petro Chemical Prod      | <a href="#">CH18</a> |
|                  | Non-Chlorinated Carburetor Cleaner         | 00232-12130        | Petro Chemical Prod      | <a href="#">CH19</a> |
|                  | Silicone Spray                             | 00232-12140        | Petro Chemical Prod      | <a href="#">CH20</a> |
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|                  | Fuel Injector Cleaner                      | 00232-12180        | Petro Chemical Prod      | <a href="#">CH24</a> |
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|                  | Fuel Injector System Cleaner               |                    | Petro Chemical Prod      | <a href="#">CH25</a> |
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|                  | Cleaner & Degreaser Multipurpose           | 00232-12190        | Petro Chemical Corp      | <a href="#">CH33</a> |
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|                  | Nyogel Grease 30cc                         | 00240-Y0800        | Nye Lubricants Inc       | <a href="#">CH38</a> |
|                  | Nyogel Grease 25cc                         | 00240-Y0810        | Nye Lubricants Inc       | <a href="#">CH38</a> |
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|                  | HFC 134A                                   |                    | Du Pont Chemicals        | <a href="#">CH41</a> |
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|                         | Hyundai ATF-SPIII                     | 00230-11000               | Petro-Chevron        | <a href="#">CH51</a> |
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|                         | Car Undercoating                      | Part Number Not available | Korea Houghton Co    | <a href="#">CH53</a> |
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|                         |                                       | 00305-2D000               |                      |                      |
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|                         | Hyundai JWS 3309-T4                   | 00230-12000               | Amrep Chemicals      | <a href="#">CH70</a> |
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|                         | Three Bond Liquid Gasket              | 21451-33T00               | Three Bond Co. LTD   | <a href="#">CH73</a> |
| ATF 6HP ZF FLUID        | 00232-19001                           | ZF Getriebe Gmbh          | <a href="#">CH74</a> |                      |
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|                   | Black & Gray Dye Kit             | 00232-19002-KIT | Parasol Inc                | <a href="#">CH97</a>  |
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| <b>COMPRESSOR</b> | COMPRESSOR ASSY   | 97701-24A14          | Idemitsu Kosan    | <a href="#">CA01</a> |
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|                   |                   | 97701-28A61          |                   |                      |
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|                   |                   | 97701-21251          | Honeywell         | <a href="#">CA04</a> |
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| <b>GASKETS</b>    | Oil Pan Gasket    | 21451-21000          | Dong-A Cork Ind   | <a href="#">GA01</a> |
|                   | Oil Pan Gasket    | 45632-21700          | MMC (Kokusan)     | <a href="#">GA02</a> |
|                   | Throttle Gasket   | 32178-21600          | Mikuni (Kokusan)  | <a href="#">GA03</a> |
|                   | Throttle Gasket   | 32178-21300          |                   |                      |
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|                   | Transmission Case | 45623-21701          | MMC (Kokusan)     | <a href="#">GA05</a> |
|                   | Oil Pump          | 45306-21720          | MMC (Kokusan)     | <a href="#">GA06</a> |
|                   | Intake Manifold   | 28411-21000          | Keuk Dong Gasket  | <a href="#">GA07</a> |
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|                   | Water Pump        | 25124-21000          | Dong-A Cork Ind   | <a href="#">GA09</a> |
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|                   | Korethan Enamel<br>UT505 Clear        | All Numbers | Korea Chem. Co       | <a href="#">PA03</a>  |                      |
|                   | Korethan Enamel<br>UT505 (M) Metallic |             |                      | <a href="#">PA04</a>  |                      |
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|                   | Adhesive Primer<br>NO. 04             |             |                      | 3M Company            | <a href="#">PA07</a> |
|                   | Touch-Up Paint<br>UT578 (A) Metallic  |             |                      | Korea Chem Co         | <a href="#">PA08</a> |
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|                   | Acrylic Lacquer                       | All Numbers | Bondo/Mar-Hyda       | <a href="#">PA013</a> |                      |
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|                   |                                       | 45010-33A00 | MMC (Sanwa)          | <a href="#">RK07</a>  |                      |
|                   | Valve Body                            | 45050-33A00 | MMC (Sanwa)          | <a href="#">RK08</a>  |                      |
|                   | Oil Pump                              | 45030-33A00 | MMC (Sanwa)          | <a href="#">RK09</a>  |                      |
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|                  |                             | 88810-38501-LT    |                      |                      |                      |
|                  |                             | 88820-38501-SR    |                      |                      |                      |
|                  | Seat Belt Assy              | 88870-29755-LT/FK | Livbag               | <a href="#">SB02</a> |                      |
|                  |                             | 88880-29765-LT/FK |                      |                      |                      |
|                  |                             | 88810-38500-LT/SR |                      |                      |                      |
|                  |                             | 88820-38500-LT/SR |                      |                      |                      |
|                  |                             | 88870-25500-LT/ZE |                      |                      |                      |
|                  |                             | 88870-25580-LT/ZE |                      |                      |                      |
|                  |                             | 88880-25500-LT/ZE |                      |                      |                      |
|                  |                             | 88880-25580-LT/ZE |                      |                      |                      |
|                  |                             | 88810-2C500-LK    |                      |                      |                      |
|                  |                             | 88820-2C500-LK    |                      |                      |                      |
|                  |                             | 88880-25500-LT/ZE |                      |                      |                      |
|                  |                             | 88870-26500-TI/YD |                      |                      |                      |
|                  |                             | 88880-26500-TI/YD |                      |                      |                      |
|                  |                             | 88870-26501-TI/YD |                      |                      |                      |
|                  |                             | 88870-26600-TI/YD |                      |                      |                      |
|                  |                             | 88880-26501-TI/YD |                      |                      |                      |
|                  |                             | 88880-26600-TI/YD |                      |                      |                      |
|                  | 88810-2C750-LK              | Autoliv           | <a href="#">SB03</a> |                      |                      |
|                  | 88820-2C750-LK              |                   |                      |                      |                      |
|                  | 88870-26600                 |                   |                      |                      |                      |
|                  | 88880-26600                 |                   |                      |                      |                      |
|                  | 88810-2C760-LK              |                   |                      |                      |                      |
|                  | 88820-2C760-LK              |                   |                      |                      |                      |
|                  | 88870-27761-LK              |                   |                      |                      |                      |
|                  | 88810-39500-LK/ZQ           |                   |                      | Nippon Koki          | <a href="#">SB04</a> |
|                  | 88810-3D500-SR              |                   |                      |                      |                      |
|                  | 8820-39500-LK/ZQ            |                   |                      |                      |                      |
|                  | 88820-3D500-LKSR            |                   |                      |                      |                      |
|                  | 88870-2D500-OH/ZE           |                   |                      |                      |                      |
|                  | 88870-2D501-OH/ZE           |                   |                      |                      |                      |
|                  | 88870-27761-LK              |                   |                      |                      |                      |
|                  | 88880-27762-LK              |                   |                      |                      |                      |
|                  | 88880-2D500-OH/ZE           |                   |                      |                      |                      |
|                  | 88880-2D501-OH/ZE           |                   |                      |                      |                      |
|                  | 88880-27752-LK              |                   |                      |                      |                      |
|                  | 88810-3D500-LK              |                   |                      |                      |                      |
|                  | 88880-27750-LK              |                   |                      |                      |                      |
|                  | 88810-2E500-DD/LM           | Takata            | <a href="#">SB05</a> |                      |                      |
|                  | 88820-2E500-DD/LM           |                   |                      |                      |                      |
|                  | 88830-2E500-DD/J9           |                   |                      |                      |                      |
|                  | 88830-2E500-LM/U7/WK        |                   |                      |                      |                      |
|                  | 88840-2E500-DD/J9           |                   |                      |                      |                      |
|                  | 88840-2E500-LM/U7/WK        |                   |                      |                      |                      |
|                  | 88810-0A000-QD/QS           |                   |                      | Nippon Kayaku        | <a href="#">SB06</a> |
|                  | 88820-0A000-QD/QS           |                   |                      |                      |                      |
|                  | 88810-0A000-CH              |                   |                      |                      |                      |
|                  | 88820-0A000-CH              |                   |                      |                      |                      |
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|                  | 88830-3L500-J9/WK/X6        |                   |                      |                      |                      |
|                  | 88840-3L500-J9/WK/X6        |                   |                      |                      |                      |
|                  | 88870-1E501-OR/QS           |                   |                      |                      |                      |
|                  | 88870-1E500-OR/QS           |                   |                      |                      |                      |
|                  | 88880-1E500-OR/QS           |                   |                      |                      |                      |
|                  | 88880-1E501-OR/QS           |                   |                      |                      |                      |
|                  | 88880-1E530-QS/WK           |                   |                      |                      |                      |
|                  | 88820-3L500-J9/WK/X6-QQH    |                   |                      |                      |                      |
|                  | 88810-2E501-DD              |                   |                      | Takata               | <a href="#">SB08</a> |
|                  | 88810-2E501-J9              |                   |                      |                      |                      |
|                  | 88810-2E501-U7              |                   |                      |                      |                      |
|                  | 88810-2E501-WK              |                   |                      |                      |                      |
|                  | 88810-2E501-LM              |                   |                      |                      |                      |
|                  | 88820-2E501-DD              |                   |                      |                      |                      |
|                  | 88820-2E501-J9              |                   |                      |                      |                      |
|                  | 88820-2E501-LM              |                   |                      |                      |                      |
|                  | 88820-2E501-U7              |                   |                      |                      |                      |
| 88820-2E501WK    |                             |                   |                      |                      |                      |

# HYUNDAI MATERIAL SAFETY DATA SHEETS REFERENCE

## MSDS INDEX

| Item                     | Part Name      | Part Number          | Manufacturer | Reference Number     |
|--------------------------|----------------|----------------------|--------------|----------------------|
| <b>SEAT BELT</b>         | Seat Belt Assy | 88810-4D500-CS/KS    | Takata       | <a href="#">SB10</a> |
|                          |                | 88820-4D500-CS/KS    |              |                      |
|                          |                | 88830-3L600-J9/WK/X6 |              |                      |
|                          |                | 88810-3L600-J9/WK/X6 |              |                      |
|                          |                | 88830-3L601-J9/WK/X6 |              |                      |
|                          |                | 88840-3L601-J9/WK/X6 | TRW          | <a href="#">SB11</a> |
|                          |                | 88810-2E501-Z9       |              |                      |
|                          |                | 88830-3J500-OR/WK/6T |              |                      |
|                          |                | 88870-3J500-OR/WK/6T |              |                      |
|                          |                | 88880-3J500-OR/WK/6T |              |                      |
|                          |                | 88810-2H500-4W/8M/9P | AUTOLIV NCS  | <a href="#">SB12</a> |
|                          |                | 88820-2H500-4W/8M/9P |              |                      |
|                          |                | 88870-2D550-LT/ZE    |              |                      |
|                          |                | 88880-2D550-LT/ZE    |              |                      |
|                          |                | 88810-2M500-9P       |              |                      |
|                          |                | 88820-2M500-9P       | HIRTENBERGER | <a href="#">SB13</a> |
|                          |                | 88830-3J500-OR/WK/6T |              |                      |
|                          |                | 88830-0A001-QS       | Takata       | <a href="#">SB14</a> |
|                          |                | 88830-0A000-QD/QS    |              |                      |
|                          |                | 88840-0A000-QD/QS    |              |                      |
|                          |                | 88830-0A001-CH/QD    |              |                      |
|                          |                | 88840-0A000-CH       |              |                      |
|                          |                | 88840-0A001-CH       | Takata       | <a href="#">SB15</a> |
|                          |                | 88840-0A001-QD/QS    |              |                      |
|                          |                | 88830-0A000-CH       |              |                      |
|                          |                | 88810-3L610-J9/WK/X6 |              |                      |
|                          |                | 88820-2E510-J9/U7/WK |              |                      |
|                          |                | 88820-3L600-J9/WK/X6 |              |                      |
|                          |                | 88820-3L610-J9/WK/X6 |              |                      |
|                          |                | 88870-0W000-J4/J9/WK |              |                      |
|                          |                | 88880-0W000-J4/J9/WK |              |                      |
|                          |                | 88810-2E510-J9/U7/WK |              |                      |
|                          |                | 88810-3L600-WK       | Takata       | <a href="#">SB16</a> |
| 88810-0A500-V2/X6        |                |                      |              |                      |
| 88820-0A500-V2/X6        |                |                      |              |                      |
| 88820-3L610-J9/WK/X6-QQH |                |                      |              |                      |
| 88810-2L510-WK/9K        |                |                      |              |                      |
| 88820-2L510-WK/9K        | AUTOLIV NCS    | <a href="#">SB17</a> |              |                      |
| 88810-3L611-J9/WK/X6     |                |                      |              |                      |
| 88820-4D501-CS/KS        |                |                      |              |                      |
| 88810-2H550-4W/8M/9P     |                |                      |              |                      |
| 88820-2H550-4W/8M/9P     |                |                      |              |                      |

# HYUNDAI MATERIAL SAFETY DATA SHEETS REFERENCE

## MSDS INDEX

| Item                       | Part Name             | Part Number | Manufacturer        | Reference Number     |
|----------------------------|-----------------------|-------------|---------------------|----------------------|
| <b>SHOCK<br/>ABSORBERS</b> | Strut /Shock Assembly | 54611-XXXXX | Mando Machinery Co. | <a href="#">SH01</a> |
|                            |                       | 54650-XXXXX |                     |                      |
|                            |                       | 54651-XXXXX |                     |                      |
|                            | Shock Absorber        | 54660-XXXXX |                     |                      |
|                            |                       | 54661-XXXXX |                     |                      |
|                            |                       | 55305-XXXXX |                     |                      |
|                            | Strut Assembly        | 55310-XXXXX |                     |                      |
|                            |                       | 55311-XXXXX |                     |                      |
|                            |                       | 55350-XXXXX |                     |                      |
|                            |                       | 55351-XXXXX |                     |                      |
|                            |                       | 55351-XXXXX |                     |                      |
|                            |                       | 55351-XXXXX |                     |                      |
|                            |                       | 55360-XXXXX |                     |                      |
|                            |                       | 55361-XXXXX |                     |                      |
|                            |                       | 55361-XXXXX |                     |                      |
| 55305-3K251-DQQH           |                       |             |                     |                      |

# HYUNDAI MATERIAL SAFETY DATA SHEETS REFERENCE

## MSDS INDEX

| Item                 | Part Name                   | Part Number         | Manufacturer         | Reference Number     |
|----------------------|-----------------------------|---------------------|----------------------|----------------------|
| <b>STARTERS</b>      | Commutator of Armature Assy | 36150-21740         | Mando Machinery Co   | <a href="#">ST01</a> |
|                      | Tailgate lifter Assy        | 81770-27001         | Mando Machinery Co   | <a href="#">TG01</a> |
| 81770-27011          |                             |                     |                      |                      |
| 81770-27021          |                             |                     |                      |                      |
| Lifter Assy          | 81770-22200                 | Mando Machinery Co  | <a href="#">TG02</a> |                      |
|                      | 81770-27000                 |                     |                      |                      |
|                      | 81770-27010                 |                     |                      |                      |
|                      | 81771-29200                 |                     |                      |                      |
|                      | 81771-29221                 |                     |                      |                      |
|                      | 81780-22200                 |                     |                      |                      |
| Lifter Assy          | 81771-2D720                 | Stabilus            | <a href="#">TG03</a> |                      |
|                      | 81771-26011                 |                     |                      |                      |
| Lifter Assy          | 81770-27002                 | Cosmo Teion Grease  | <a href="#">TG04</a> |                      |
|                      | 81770-27012                 | Korea Chemical      |                      |                      |
|                      | 81771-26010                 | Daphne Hermetic Oil |                      |                      |
|                      | 81771-26011                 |                     |                      |                      |
|                      | 81771-29221                 |                     |                      |                      |
|                      | 81780-25200                 |                     |                      |                      |
|                      | 81780-25210                 |                     |                      |                      |
| 81770-25440          |                             |                     |                      |                      |
| Lifter Hood          | 81161-2C001                 | Stabilus            | <a href="#">TG05</a> |                      |
|                      | 81161-26001                 |                     |                      |                      |
|                      | 81161-3D001                 |                     |                      |                      |
|                      | 81771-2D211                 |                     |                      |                      |
|                      | 81771-2D221                 |                     |                      |                      |
|                      | 81771-3D002                 |                     |                      |                      |
|                      | 81161-3L000                 |                     |                      |                      |
|                      | 81771-3L000                 |                     |                      |                      |
|                      | 8177139501                  |                     |                      |                      |
|                      | 81771-4D000                 |                     |                      |                      |
|                      | 81771-4D010                 |                     |                      |                      |
|                      | 81781-4D000                 |                     |                      |                      |
|                      | 81781-4D010                 |                     |                      |                      |
|                      | Tailgate lifter Assy        |                     |                      | 81780-25551          |
| 81780-25561          |                             |                     |                      |                      |
| 81780-25530          |                             |                     |                      |                      |
| 81161-39010          |                             |                     |                      |                      |
| 81162-39010          |                             |                     |                      |                      |
| 81160-0W000          |                             |                     |                      |                      |
| 81160-2B000          |                             |                     |                      |                      |
| 81161-4D000          |                             |                     |                      |                      |
| 81171-4D000          |                             |                     |                      |                      |
| 81170-0W000          |                             |                     |                      |                      |
| 81770-2B000          |                             |                     |                      |                      |
| Tailgate lifter Assy | 81770-2B010                 | Praxair             | <a href="#">TG06</a> |                      |
|                      | 81780-1E000                 |                     |                      |                      |
|                      | 81770-25551                 |                     |                      |                      |
|                      | 81770-25561                 |                     |                      |                      |
|                      | 81770-0W001                 |                     |                      |                      |
|                      | 81770-0W002                 |                     |                      |                      |
|                      | 81770-0W010                 |                     |                      |                      |
| 81770-0W011          |                             |                     |                      |                      |
| 81770-1E000          |                             |                     |                      |                      |
| Lifter Hood          | 81161-3L001                 | Stabilus            | <a href="#">TG07</a> |                      |
| Tailgate lifter Assy | 81771-0A000                 | Takata              | <a href="#">TG08</a> |                      |

# MATERIAL SAFETY DATA SHEET

Note: Read and understand Material Safety Data Sheet before handling or disposing of product.

Issued date: 29 June 2006

MSDS No. A4008

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### COMPANY IDENTIFICATION

### NIPPON OIL CORPORATION

3-12, Nishi Shimbashi 1-chome, Minato-ku, Tokyo, 105-8412  
Japan

EMERGENCY TELEPHONE NUMBER:

+81-3-3502-9168

TELEPHONE NUMBER FOR INFORMATION:

+81-3-3502-1111

FAX NUMBER FOR INFORMATION:

+81-3-3502-9365

PRODUCT NAME:

ATF SPⅢ(US)

PRODUCT USE:

Automatic transmission fluid

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

### COMPOSITION

| <u>Components</u>              | <u>Amount(%)</u> | <u>Limit</u>  |
|--------------------------------|------------------|---|
| Highly refined petroleum oil   | > 80             | 5 mg/m <sup>3</sup> TWA-OSHA (Mineral Oil Mist #1)<br>5 mg/m <sup>3</sup> TWA-ACGIH (Mineral Oil Mist #1) |
| Additives<br>Additives for ATF | < 20             |   |

### Hazardous information

#1 Highly refined petroleum oil, by definition, is considered hazardous according to OSHA.  
Because it carries the Threshold limit value (TLV) for mineral oil mist.

## SECTION 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### Warning statement:

Caution! Prolonged or repeated contact with skin may cause irritation in some cases.

#### Precautionary Measures:

Avoid breathing vapor and mist. Keep container closed.  
Avoid contact with eyes, skin, and clothing.  
Wash thoroughly after handling. Keep away from heat.

#### Potential health effect:

**Eyes:** May cause minor irritation.

**Skin:** May cause minimal skin irritation.

**Inhalation:** Vapor or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material, or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

**Ingestion:** May cause abdominal discomfort, nausea, or diarrhea.

**Sensitization properties:** Unknown

**Chronic Properties:** If prolonged exposure occurs, nausea, headache, diarrhea, and physical discomfort.

**Other remarks:** None

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**SECTION 4. FIRST AID MEASURES**

**Eyes:** Flush immediately with water for at least 15 minutes. Get immediate medical attention.  
**Skin:** Wash with soap and water. Get medical attention if irritation develops.  
 Launder contaminated clothing before reuse.  
**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.  
**Ingestion:** Do not make person vomit unless directed to do so by medical personnel.  
**Note to physician:** Treat symptomatically.

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**SECTION 5. FIRE FIGHTING MEASURES**

**Flash point (Typical), °C** >175 (COC)  
**Autoignition temp., °C** Not Determined.  
**Flammability limits:** Not Determined.  
**Extinguishing media:** CO<sub>2</sub>, dry chemical, or foam.  
**Special fire fighting procedures:** Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.  
**Unusual fire & explosion hazards:** Toxic fumes, gases or vapors may evolve on burning.  
**Explosion data:** Material does not have explosive properties.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES****Procedures in Case of Accidental Release, Breakage or Leakage:**

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

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**SECTION 7. HANDLING AND STORAGE**

Do not weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous material which may ignite with explosive violence if heated sufficiently.

Minimum feasible handling temperatures should be maintained.

Periods of exposure to high temperatures should be minimized.

Water contamination should be avoided.

**CAUTION:** Do not use pressure to empty drum or drum may rupture with explosive force.

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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Eye Protection:** Chemical type goggles or face shield optional.

**Skin Protection:** Avoid prolonged or frequently repeated skin contact by wearing impervious protective clothing including gloves.

**Respiratory Protection:** Wear a breathing mask.

**Ventilation:** No special ventilation is usually necessary. However, if operating conditions create high air borne concentrations of this material, special ventilation may be needed.

**Other clothing and Equipment:** No special clothing or equipment is usually necessary.

**Work practices, hygienic practices:** No information is available.

**Other handling and storage requirements:** No information is available.

**Protective measures during maintenance of contaminated equipment:** No Data Available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                         |                          |                    |
|-------------------------|--------------------------|--------------------|
| Odor                    |                          | Slight odor        |
| Appearance              |                          | Red liquid         |
| Boiling point           | °C                       | No Data Available  |
| Solubility              |                          | Insoluble in water |
| Density                 | @15°C, g/cm <sup>3</sup> | 0.859              |
| Pour point              | °C                       | <-40               |
| DMSO Extract (Base oil) | mass % (IP 346)          | < 3                |

**SECTION 10. STABILITY AND REACTIVITY**

|  |  |
|--|--|
| <b>Stability:</b>                            | Stable   |
| <b>Conditions to Avoid:</b>                  | See the Handling and storage section for further details.  |
| <b>Incompatibility (materials to avoid):</b> | Acids. Oxidizing agents. Halogens and halogenated compounds.   |
| <b>Hazardous Polymerization:</b>             | Will not occur   |
| <b>Thermal decomposition:</b>                | Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: Calcium, Sulfur, Zinc. |

**SECTION 11. TOXICOLOGICAL INFORMATION**

|                                  |                    |   |
|----------------------------------|--------------------|---|
| <b>Acute Oral:</b>               | No Data Available: | Believed to be greater than 5 g/kg (rat)<br>Practically non-toxic                                 |
| <b>Dermal:</b>                   | No Data Available: | Believed to be greater than 3 g/kg (rabbit)<br>Practically non-toxic                              |
| <b>Carcinogen:</b><br>(Base oil) | OSHA:<br>EU:       | This material is listed as Group 3 by IARC.<br>The classification as a carcinogen need not apply. |

**SECTION 12. ECOLOGICAL INFORMATION**

|                            |  |
|----------------------------|--|
| <b>Biodegradation:</b>     | No Data Available  |
| <b>Environmental fate:</b> | This material is not expected to present any environmental problems other than those associated with oil spills. |

**SECTION 13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:**

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

**SECTION 14. TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations.

|                                   |                 |
|-----------------------------------|-----------------|
| <b>DOT Proper Shipping Name:</b>  | Not applicable. |
| <b>IMDG Proper Shipping Name:</b> | Not applicable. |
| <b>ICAO Proper Shipping Name:</b> | Not applicable. |
| <b>TDG Proper Shipping Name:</b>  | Not applicable. |
| <b>NFPA Proper name:</b>          | Class 1.        |
| <b>UN Number:</b>                 | Not applicable. |

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## SECTION 15. REGULATION INFORMATION

|                                 |   |
|---------------------------------|---|
| The U.S.TSCA inventory:         | All components of this material are on the US TSCA inventory.   |
| The EC EINECS inventory:        | All components of this material are on the EC EINECS inventory. |
| The CANADA DSL inventory:       | No Data Available.  |
| The AUSTRALIA AICS inventory:   | No Data Available.  |
| The KOREA TCCL inventory:       | All components of this material are on the TCCL inventory.      |
| The PHILIPPINE PICCS inventory: | May require notification before sale in PHILIPPINE.             |

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## SECTION 16. OTHER INFORMATION

None

### References:

1. Handbook of Toxic and Hazardous Chemicals and Carcinogens (2nd ed.)
2. Registry of Toxic Effects of Chemical Substances (NIOSH, 1983)

Material safety data sheets are provided as reference information on the safe handling of hazardous or harmful materials to companies using such materials. When referring to this data sheet, companies should remember that they must take responsibility for implementing the proper measures for their own particular situations. This data sheet is not a guarantee of safety.