

1. Product and Company Identification

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Product Name PALLADIUM CALCIUM CARBONATE 10%
pd
Part Number RXSOL-60-6605-166

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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Email mail@rxmarine.com
web site

2. Composition / Information on ingredients

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| Chemical Name | CAS | EC number | Weight |
|-------------------------------|-------------------|-----------|--------|
| PALLADIUM CARBONATE 10% pd | CALCIUM 7440-05-3 | 231-115-6 | 270.55 |

3. Hazards Identification

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| Signal Word | Warning |
| Classification of the substance or mixture | Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 For the full text of the H-Statements mentioned in this Section, see Section 16. |
| Hazard Statements | H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation.H315 Causes skin irritation. H319 Causes serious eye irritation. |
| P280 Wear protective gloves.P305 + P351 + P338 Precautionary statements - response | NA IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue |
| Response | rinsing. None |
| Disposal | NA |
| Prevention | NA |
| Supplemental Hazard Statements | None |

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| Other hazards | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
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4. First Aid Measures

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| General advice | Consult a physician. Show this material safety data sheet to the doctor in attendance. |
| If inhaled | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| Eye Contact | Consult a physician Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician |
| swallowed | NA |
| Skin Contact | Wash off with soap and plenty of water. Consult a physician |
| Inhalation: | NA |
| Ingestion: | NA |
| Notes to Physician | NA |
| If swallowed | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Most important symptoms and effects, both acute and delaye | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| Indication of any immediate medical attention and special treatment needed | No data available |

5. Fire-fighting Measures

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|---|---|
| Flammability | NA |
| Flash Point | NA |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide |
| Unsuitable extinguishing media | NA |
| Special hazards arising from the substance or mixture | Calcium oxide |
| Further information | Use water spray to cool unopened containers. |
| Hazardous combustion products | NA |
| Advice for firefighters | Wear self-contained breathing apparatus for firefighting if necessary. |
| Protective Equipment | NA |
| Specific Hazards Arising from the Chemical | NA |

6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. |
| Spillage | NA |
| Personal Protection | NA |
| Environmental Precaution | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Methods and materials for containment and cleaning | Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). For disposal see section 13. |
| Reference to other sections | |

7. Handling and Storage

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| Advice on safe handling | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. |
| Advice on protection against fire and explosion | Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2. |
| Precautions for safe handling | Advice on safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols |
| Conditions for safe storage, including any incompatibilities | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas. |
| Storage conditions | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Handle and store under inert gas. |
| Storage class | Storage class (TRGS 510): 13: Non Combustible Solids |
| Specific end use(s) | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |
| Handling | NA |
| Advice on general occupational hygiene | Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. |

8. Exposure controls and personal protection

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|------------------------------------|---|
| Occupational Exposure limit values | No data available |
| Biological limit values | No data available |
| Exposure controls | NA |
| Engineering Control | NA |
| Eye/face protection | Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| Body Protection | Impervious clothing, Flame retardant antistatic protective clothing., The type o protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Skin protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. |
| Respiratory protection | Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and Aldrich- 76030 Page 5 of 12 The life science business of Merck operates as MilliporeSigma in the US and Canada approved under appropriate government standards such as NIOSH (US) or CEN (EU) |
| Other Protection Measure | NA |
| Control of environmental exposure | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Thermal hazards | No data available |



Gloves Suit

9. Physical and chemical properties

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| Physical state | Powder |
| Colour | Gray |
| Odour | Odorless |
| Odor Threshold | Not Applicable |
| pH | Not Applicable |
| Melting Point | No data available |
| Boiling Point | No data available |
| Flash Point | No data available |
| Evaporation Rate | Not Applicable |
| Flammability (solid, gas) | The substance or mixture is a flammable solid with the category 2. |
| Explosive limits | No Data Available |
| Upper/lower flammability or explosive limits | No data available |

| | |
|---------------------------|-----------------------------------|
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Vapour pressure | No Data Available |
| Density | No data available |
| Vapour Density | No Data Available |
| Specific Gravity | No data available |
| Partition coefficient | No data available |
| Explosive properties | None |
| Solubility | DMSO (Slightly), Water (Slightly) |
| Ignition temperature | No information available. |
| Particle characteristics | No data available |
| Other safety information | No data available |

10. Stability and reactivity

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|------------------------------------|---|
| Reactivity | No data available |
| Stability | Stable under recommended storage conditions |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | Heat, flames and sparks. Extremes of temperature and direct sunlight. |
| Incompatible materials | No data available |
| Hazardous Polymerization | In the event of fire: see section 5 |

11. Toxicological information

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| Acute toxicity | LD50 Oral - Rat - female - > 2.000 mg/kg (calcium carbonate) (OECD Test Guideline 420) LC50 Inhalation - Rat - male and female - 4 h - > 3 mg/l - aerosol (calcium carbonate) (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (calcium carbonate) (OECD Test Guideline 402) |
| Skin corrosion/irritation | Skin - reconstructed human epidermis (RhE) (calcium carbonate) Result: No skin irritation - 15 min (OECD Test Guideline 439) |
| Serious eye damage/eye irritation | Eyes - Bovine cornea (calcium carbonate) Result: No eye irritation - 4 h (OECD Test Guideline 437) |
| Respiratory or skin sensitization | Local lymph node assay (LLNA) - Mouse (calcium carbonate) Result: negative (OECD Test Guideline 429) |
| Rout Of Entry | Inhalation. Ingestion. |
| Toxicity to Animal | NA |
| Toxic Effects on Human | NA |
| Germ cell mutagenicity | Test Type: Ames test (calcium carbonate) Test system: Escherichia coli/Salmonella Typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. (calcium carbonate) Test system: Human lymphocytes Metabolic activation: with And without metabolic activation Method: OECD Test Guideline 473 Result: Negative Test Type: In vitro mammalian cell gene mutation test (calcium Carbonate) Test system: mouse lymphoma cells Metabolic activation: with and Without metabolic activation Method: OECD Test Guideline 476 Result: negative |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Special Remarks on other Toxic Effects on Humans: | NA |

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| Additional Information | Endocrine disrupting properties |
| Assessment | The substance/mixture does not contain components considered to have endocrine Disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 48 Days - NOAEL (No observed adverse effect level) - 1.000 mg/kg (calcium carbonate) To The best of our knowledge, the chemical, physical, and toxicological properties Have not been thoroughly investigated. (calcium carbonate) Hazardous properties Cannot be excluded but are unlikely when the product is handled appropriately. (calcium carbonate) Handle in accordance with good industrial hygiene and safety Practice.(calcium carbonate) |
| Endocrine disrupting properties | Product: Assessment : The substance/mixture does not contain components Considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 48 Days - NOAEL (No observed adverse effect level) - 1.000 mg/kg (calcium carbonate) To the best of our knowledge, the chemical, Physical, and toxicological properties have not been thoroughly investigated. (Calcium carbonate) Hazardous properties cannot be excluded but are unlikely When the product is handled appropriately. (calcium carbonate) Handle in Accordance with good industrial hygiene and safety practice. |

12. Ecological information

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| Persistence and degradability | No data available |
| Toxicity | Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (calcium carbonate) (OECD Test Guideline 203) Toxicity to Daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (calcium carbonate) (OECD Test Guideline 202) |
| Bioaccumulative potential | Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 72 h (calcium carbonate) (OECD Test Guideline 201) Toxicity to Bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (calcium Carbonate) (OECD Test Guideline 209) |
| Toxicity to fish | Bioaccumulation is unlikely. |
| Toxicity to daphnia and other aquatic invertebrates | Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 H (calcium carbonate) (OECD Test Guideline 203) |
| Toxicity to algae | Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (calcium Carbonate) (OECD Test Guideline 202) |
| Eco Toxicity | Static test ErC50 - Desmodesmus subspicatus (green algae) - 14 mg/l - 72 h (Calcium carbonate) (OECD Test Guideline 201) |
| COD and BOD 5 | Not Available |
| Products Biodegradation: | Not Available |
| Mobility in soil | NA. |
| Results of PBT and vPvB assessment | No data available |
| Endocrine disrupting properties | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Assessment | The substance/mixture does not contain components considered to have Endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| | The substance/mixture does not contain components considered to have Endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

Other adverse effects

No ecological problems are to be expected when the product is handled and Used with due care and attention.

13. Disposal considerations

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Disposal methods

NA

Contaminated packaging

Dispose of as unused product.

Waste treatment Method

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but Exert extra care in igniting as this material is highly flammable. Offer surplus and non-Recyclabl solutions to a licensed disposal company.

14. Transport information

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UN number

ADR/RID: - NO

IMDG: - NO

IATA: - NO

UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - NO

IMDG: - NO

IATA: - NO

Packaging group

ADR/RID: - NO

IMDG: - NO

IATA: - NO

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

Transport in bulk according to IMO instruments

No data available

Further information

Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations specific for the product in question

NA

National legislation

NA

DSCL (EEC)

NA

Other regulations

NA

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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PALLADIUM ACETATE RXSOL-60-6605-160

PALLADIUM HYDROXIDE 20% ON CHARCOAL RXSOL-60-6605-163

PALLADIUM NITRATE 44% PD content RXSOL-60-6605-164

PALLADIUM SPONGE 99.9% POWDER RXSOL-60-6605-165

PALLADIUM CALCIUM CARBONATE 10% pd RXSOL-60-6605-166

PARAFFIN WAX 58 60C BLOCK BRICKS RXSOL-60-6605-180

P DIMETHYL AMINO BENZALDEHYDE AR RXSOL-60-6605-192

P DIMETHYL AMINO CINNAMALDEHYDE AR RXSOL-60-6605-193

PEPTONE BACTERIOLOGICAL GRANULAR RXSOL-60-6605-197

PETROLEUM ETHER 100-2000 C FOR SYNTHESIS RXSOL-60-6605-205

PHENOL RED INDICATOR SOLUTION RXSOL-60-6605-215

PHENOLDISULPHONIC ACID SOLUTION 25% RXSOL-60-6605-216

PHENOLPHTHALEIN INDICATOR RXSOL-60-6605-218

PHENYL CHLOROFORMATE FOR SYNTHESIS RXSOL-60-6605-219

PHENYL HYDRAZINE AR RXSOL-60-6605-220

PHENYL HYDRAZINE FOR SYNTHESIS RXSOL-60-6605-221

PHENYL HYDRAZINE HYDROCHLORIDE AR RXSOL-60-6605-223

PHENYL MERCURY ACETATE FOR SYNTHESIS RXSOL-60-6605-224

PHENYL PHOSPHATE DISODIUM SALT AR RXSOL-60-6605-226

PHENYL TRIMETHYL AMMONIUM CHLORIDE RXSOL-60-6605-227

PHLOXIN B FOR MICROSCOPY RXSOL-60-6605-229

PHTHALAMIDE FOR SYNTHESIS RXSOL-60-6605-237

PHTHALIC ACID AR RXSOL-60-6605-238

PHTHALIC ACID FOR SYNTHESIS RXSOL-60-6605-239

PHTHALIC ANHYDRIDE FOR SYNTHESIS RXSOL-60-6605-249

PHTHALIDE FOR SYNTHESIS RXSOL-60-6605-250

PHTHALIMIDE FOR SYNTHESIS RXSOL-60-6605-251

PICRIC ACID SOLUTION AR 1.2% RXSOL-60-6605-256

PIPERAZINE Anhydrous 98% RXSOL-60-6605-257

PIPERAZINE Anhydrous 98% RXSOL-60-6605-257

PIPES BUFFER piperazine NN-Bis-2-Ethene Sulfonic acid RXSOL-60-6605-260

PLATINIUM OXIDE Pt 80% RXSOL-60-6605-261

POLYETHYLENE GLYCOL 600 RXSOL-60-6605-269

POLYVINYL PYRROLIDONE PVP RXSOL-60-6605-241

PONCEAU S FOR ELECTROPHORESIS RXSOL-60-6605-242

POPOP Scintillation Grade 1 4-bis5-phenyloxaza-2yl benzene RXSOL-60-6605-243

POPSO BUFFER FOR BIOCHEMISTRY RXSOL-60-6605-244

POTASSIUM ACETATE AR RXSOL-60-6605-245

POTASSIUM ACETATE LR RXSOL-60-6605-246

SODAMIDE RXSOL-60-6605-451

SODIUM ACETATE TRIHYDRATE AR RXSOL-60-6605-462

SODIUM ARSENITE SOLUTION AR 0.1N N10 RXSOL-60-6605-468

SODIUM BENZOATE AR RXSOL-60-6605-472

SODIUM BISELENITE Sodium Hydrogen Selenite RXSOL-60-6605-473

SODIUM BROMATE LR RXSOL-60-6605-481

SODIUM BROMIDE AR RXSOL-60-6605-482

SODIUM BROMIDE LR RXSOL-60-6605-483

SODIUM CHLORIDE SOLUTION 85% wv RXSOL-60-6605-488

SODIUM CHROMATE TETRAHYDRATE LR RXSOL-60-6605-490

SODIUM DI CHLOROISOCYANURATE RXSOL-60-6605-495

SODIUM HYDROXIDE SOLUTION IN 1M N1 RXSOL-60-6605-519

SODIUM LAURYL SULPHATE AR 99% RXSOL-60-6605-529

SODIUM LAURYL SULPHATE POWDER LR RXSOL-60-6605-531

SODIUM META BORATE TETRAHYDRATE LR RXSOL-60-6605-534

SODIUM METHOXIDE AR RXSOL-60-6605-535

SODIUM METHOXIDE POWDER LR RXSOL-60-6605-536

SODIUM MOLYBDATE AR DIHYDRATE RXSOL-60-6605-537

SODIUM NITRITE AR RXSOL-60-6605-541

SODIUM NITRITE LR RXSOL-60-6605-542

SODIUM NITRO PRUSIDE AR RXSOL-60-6605-543

SODIUM NITRO PRUSIDE LR RXSOL-60-6605-544

SODIUM OXALATE AR RXSOL-60-6605-545

SODIUM PERBORATE TRIHYDRATE PURE RXSOL-60-6605-548

SODIUM PER CARBONATE GRANULAR RXSOL-60-6605-549

SODIUM PER CARBONATE TABLET RXSOL-60-6605-550

SODIUM PERSULPHATE AR RXSOL-60-6605-553

SODIUM PERSULPHATE LR RXSOL-60-6605-554

SODIUM PHOSPHATE DI BASIC DIHYDRATE RXSOL-60-6605-559

SODIUM PYRUVATE RXSOL-60-6605-562

SODIUM SALICYLATE AR RXSOL-60-6605-563

SODIUM SELENITE AR ANHYDROUS RXSOL-60-6605-566

SODIUM SELENITE LR ANHYDROUS RXSOL-60-6605-567

SODIUM SELENITE PENTAHYDRATE LR RXSOL-60-6605-568

SODIUM SILICATE POWDER META HYDRATED RXSOL-60-6605-569

SODIUM SILICATE SOLUTION RXSOL-60-6605-570

SODIUM SILICO FLUORIDE 99% RXSOL-60-6605-571

SODIUM STANNATE LR RXSOL-60-6605-572

SODIUM SULPHATE ANHYDROUS AR RXSOL-60-6605-573

SODIUM SULPHIDE FLAKES AR RXSOL-60-6605-576

SODIUM SULPHITE ANHYDROUS AR RXSOL-60-6605-577

SODIUM SULPHITE ANHYDROUS LR RXSOL-60-6605-578

SODIUM TELLURITE 96% RXSOL-60-6605-579

SODIUM Tert BUTOXIDE 98% RXSOL-60-6605-580

SODIUM THIOCYANATE AR RXSOL-60-6605-581

SODIUM THIOSULPHATE AR PENTAHYDRATE RXSOL-60-6605-583

SODIUM TRI POLYPHOSPHATE ANHYDROUS STPP RXSOL-60-6605-585

SODIUM TUNGSTATE DIHYDRATE RXSOL-60-6605-586

SODIUM TUNGSTATE DIHYDRATE AR RXSOL-60-6605-587

SODIUM B GLYCERO PHOSPHATE AR RXSOL-60-6605-588

SOYA LECITHIN 30% RXSOL-60-6605-592

SOYA PEPTONE SOYATONE RXSOL-60-6605-593

SPADNS AR RXSOL-60-6605-595

SPAN 20 Sorbitan Monolaurate RXSOL-60-6605-596

SPAN 60 Sorbitane Monostearate